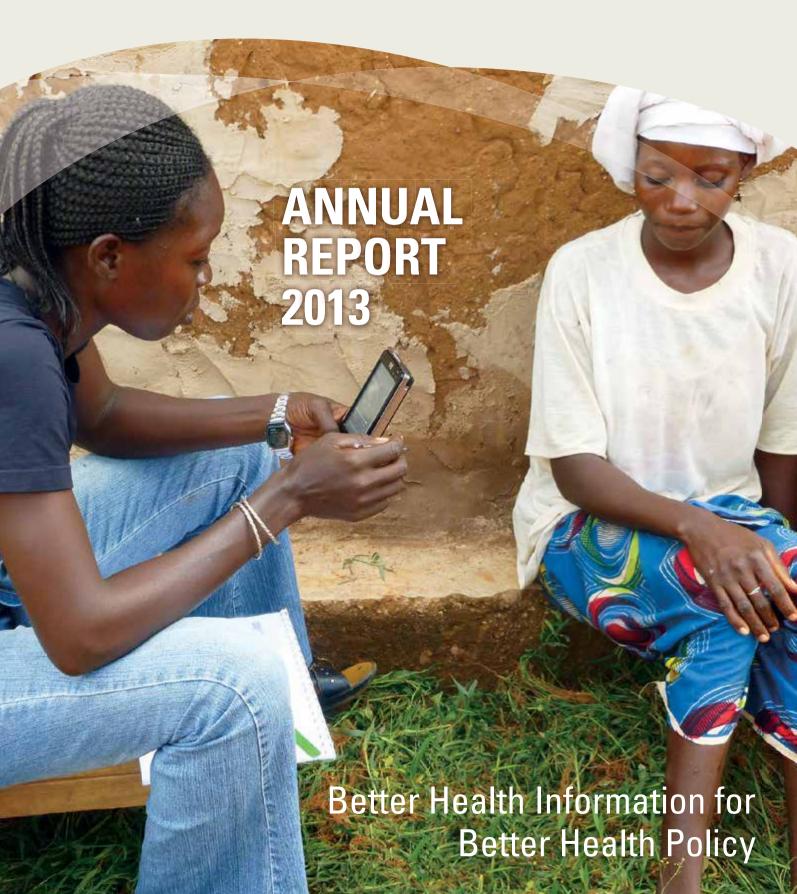


INDEPTH Network



INDEPTH is a global leader in health and population research, providing robust answers to some of the most important questions in development.

INDEPTH Network ANNUAL REPORT 2013



Better Health Information for Better Health Policy



Bandafassi HDSS Mlomp HDSS Niakhar HDSS

THE GAMBIA

Farafenni HDSS West Kiang HDSS

GUINEA BISSAU

Bandim HDSS

BURKINA FASO

Kaya HDSS Nanoro HDSS Nouna HDSS Ouagadougou HDSS Sapone HDSS

NIGERIA

Nahuche HDSS

COTE D'IVOIRE

Taabo HDSS

GHANA

Dodowa HDSS Kintampo HDSS Navrongo HDSS

SOUTH AFRICA

Africa Centre HDSS Agincourt HDSS Dikgale HDSS

ETHIOPIA

Butajira HDSS Dabat HDSS Gilgel Gibe HDSS Kersa HDSS Kilite Awlaelo HDSS

UGANDA

Iganga/Mayuge HDSS Rakai HDSS

KENYA

Kilifi HDSS Kisumu HDSS Kombewa HDSS Mbita HDSS Nairobi HDSS

TANZANIA

Ifakara HDSS Magu HDSS Rufiji HDSS

MALAWI

Karonga HDSS

MOZAMBIQUE

Manhica HDSS

INDIA

Ballabgarh HDSS Birbhum HDSS Vadu HDSS

BANGLADESH

Bandarban HDSS Chakaria HDSS Matlab HDSS

THAILAND

Kanchanaburi HDSS

VIETNAM

Chililab HDSS Dodalab HDSS Filabavi HDSS

INDONESIA

Purworejo HDSS

PAPUA NEW GUINEA

PiH HDSS Wosera HDSS

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Message from the Executive Director

THE YEAR 2013 was a very successful one for INDEPTH. Perhaps its most notable achievements were the launch on July 1 of the world's first online demographic and health data repository, the INDEPTH Data Repository (www.indepth-ishare.org), and the accompanying website, INDEPTHStats (www.indepth-ishare.org/indepthstats).

The INDEPTH Data Repository is an online archive of high-quality datasets from INDEPTH member Health and Demographic Surveillance Systems (HDSS) centres. It is the first data repository that specialises in longitudinal population-based data from low- and middle-income countries. The repository was established with six datasets from Vadu

HDSS (India), Nairobi HDSS (Kenya), Magu HDSS (Tanzania), Chililab HDSS (Vietnam), Agincourt HDSS (South Africa) and Africa Centre HDSS (South Africa).

INDEPTHStats is a website that contains summary statistics, images and graphs of key health and demographic indicators generated from the INDEPTH member HDSS centres. It provides researchers, government officials and policymakers with information that can guide their decision-making, including crude birth and death rates, age-specific fertility and death rates, infant, child, and under-five mortality rates, as well as numerous other health and demographic indicators. INDEPTHStats



Prof. Osman Sankoh, Executive Director

started with data from 18 HDSS sites. The plan is to update the repository and website with new data and additional datasets every year on July 1.

Another major achievement was the latest addition to the INDEPTH Network, the Birbhum HDSS in West Bengal, India. INDEPTH now has 42 member centres operating 49 HDSSs.

INDEPTH's strategy for 2013-2016 is to focus on the three core activities of the Network. These are: research, capacity strengthening and policy engagement.

Under the research strand – being a research and training network recognised for the data it generates – the Network showed its productivity with more than 500 publications in international journals by INDEPTH member centres from 2012-2013. We also held a successful INDEPTH Scientific Conference (ISC 2013) in Johannesburg, South Africa in October, with about 300 people from all walks of life participating.

During the year under review, we also placed much emphasis on the capacity strength-ening strand of our core activities. As well as growing the talent of scientists in member centres by holding training workshops, we have also continued to support students to undertake MSc studies in population-based field epidemiology at the University of Witwatersrand in South Africa. In 2013, we introduced a new master's programme in research-oriented data management, in partnership with the University of Witwatersrand.

With regard to the policy engagement strand, we identified the need for INDEPTH to move up a gear and facilitate the translation of network findings in order to maximise impact on policy and practice. Going forward, therefore, and in line with the strategic

plan for 2013-2016, our major focus will be on tailoring, packaging and directing research outputs, as appropriate, for different audiences and stakeholders so as to bridge the gap between research findings and policy-making. To this end, we have developed plans to strengthen the Policy Engagement and Communications Section of the INDEPTH Secretariat as well as revive the Research to Policy Working Group. We also collated publications from all member centres and synthesised them in various thematic areas including malaria, HIV and AIDS, and maternal health, with the aim of using them to influence policy and ensure an on-going collaboration between scientists and policy makers.

In order to ensure the sustainability of the Network, the Network has engaged the services of a consultant to help in developing a new fundraising strategy. Additionally, the Network also began to formulate a plan for establishing a consultancy service as part of its effort to sustain the Network financially.

It is our hope that the year 2014 brings us similar success and that we are able to fulfil our promise of updating the data repository and INDEPTHStats; and to engage policy makers in order that the thousands of research studies conducted by member centres are able to impact positively on policies and programmes. Above all we look forward to engaging in programmes that will sustain the Network.

I would like to sincerely thank the Board of Trustees, the Scientific Advisory Committee (SAC), funders, partners, collaborators, INDEPTH member centres – their leaders and teams, well-wishers, and communities where centres conduct research, as well as the staff of the Secretariat for their sustained commitment to our work.

I would like to specifically thank our core support funders in 2013: Sida/Research Cooperation Unit, Swiss TPH, Wellcome Trust and William & Flora Hewlett Foundation. Their financial contribution to the core activities of INDEPTH continues to make it possible for us to report on a range of exciting activities.

We have provided a summary of our 2013 results which is built upon a set of performance targets and indicators in line with the 2013-2016 strategic plan and M&E metrics.

I hope you will find time to read the entire report for 2013 and see how far we have come.

Very best wishes,

Hankih

Prof. Osman Sankoh, Executive Director

1. INTRODUCTION

1.1 Vision

INDEPTH will be an international network of demographic research institutions that provides health and demographic data to enable developing countries to set health priorities and policies based on the best available evidence and to guide the cost-effective use of tools, interventions and systems to ensure and monitor progress towards national goals.

1,2 Mission

To harness the collective potential of the world's community-based longitudinal demographic surveillance initiatives in low and middle income countries to provide a better understanding of health and social issues and to encourage the application of this understanding to alleviate major health and social problems.

1.3 INDEPTH's Objectives

- 1. To strengthen the capacity of INDEPTH member centres to conduct longitudinal health and demographic studies in defined populations.
- 2. To facilitate and support research capability strengthening relevant to INDEPTH activities.
- 3. To stimulate, co-ordinate and conduct cutting-edge multi-centre health and demographic research.

1.4 INDEPTH's Key Strategies

The key strategies INDEPTH Network uses to achieve its objectives include:

- Perform research to quantify and understand the complex demographic and health transitions in LMIC settings through longitudinal population-based demographic, epidemiological and cause-of-death data; and discover what works, for whom and at what cost by conducting intervention research and impact evaluations. INDEPTH campaigns and works for fuller exploitation of members' data, but does not impose specific research topics on members. At the same time, regional or global priorities are highlighted and may be supported.
- 2. Tailor research outputs as appropriate for different audiences and stakeholders to reduce the critical gap between research findings and action. Our methods for enhancing policy dialogue and communicating new knowledge to potential end users include:
 - Encouraging and supporting Working Groups to publish research findings and policy analyses in varied formats, including peer-reviewed articles in international journals, working papers and research reports, policy briefs, fact sheets, media releases and newspaper articles; our emphasis wherever possible is on "open access".

- Organising forums, meetings and briefings with key stakeholders
- Participating in international conferences and agenda-setting meetings
- Strengthening and collaborating with national and regional entities focused on population, health and development, and
- Assessing existing policies and the policymaking environment, and on the basis of evidence, making relevant recommendations
- 3. Grow the talent of scientists in Member Institutions as well as enhance the capacity of the institutions to conduct world-class research

1.5 INDEPTH in Brief

INDEPTH is a global leader in health and population research, providing robust answers to some of the most important questions in development. The lack of a reliable information base to support the identification, prevention and treatment of health problems is a major hurdle to addressing the high burden of disease in low- and middle-income countries. INDEPTH — through its global network of 49 health and demographic surveillance system (HDSS) sites run by 42 research centres in 20 countries across Africa, Asia and the Pacific region — is the only organisation in the world capable of developing that information base. It tracks a total population of over 3.5 million people, providing high quality longitudinal data not only about the lives of people in low- and middle-income countries (LMICs), but also about the impact on those lives of development policies and programmes.

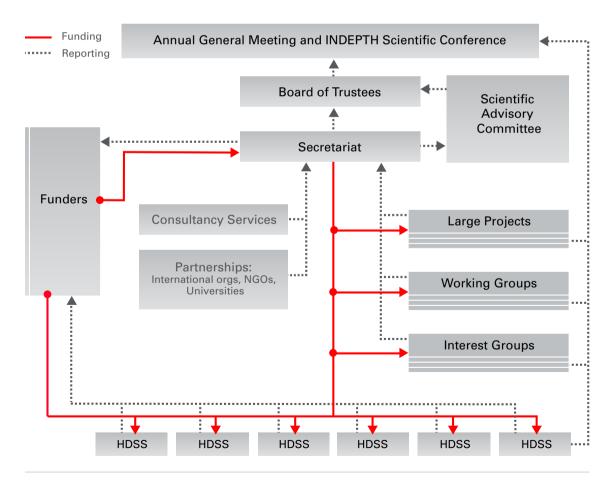


FIGURE 1: INDEPTH's Organogram: The INDEPTH network is organized to build on the work of Independent Research Centres managing 49 HDSS sites. It is structured to help facilitate cross site studies through a set of Working Groups and Interest Groups.

1.6 Our Performance in 2013

Performance measurement is central to the Network's growth and evolution. Not only are funders increasingly requiring it, but it is vital that INDEPTH monitor its productivity in such domains as publications, graduate students, dataset production and policy translation. Measuring our impact helps to clarify our value proposition to a wider range of stakeholders.

Intermediate performance indicators cut across our three business lines (research, policy engagement and communications, research capacity strengthening) and Network organs in order to clarify what is expected of each Working Group, Member Centre, Secretariat, Scientific Advisory Committee and the Board of Trustees. They allow for a complete view of the Network given our inherent inter-relatedness. Regular tracking towards defined targets helps identify critical issues as they arise so that they can be addressed in good time. Consistently, on an annual basis, we critically review intermediate outputs and aggregate Network productivity in the domains just noted.

The Network has developed a results-based monitoring system with a log frame to report on outputs and outcomes of our Strategic Plan.

OBJECTIVE 1: To strengthen the capacity of INDEPTH member centres to conduct longitudinal health and demographic studies.

Sub-objective	Intermediate Outcomes by 2016	Long-term Outcomes (2017-2020)	Baseline 2012	Output Indicators 2013	Progress
1. Train 10% more scientists and HDSS staff by 2016 and improve the skills of existing ones	10% growth in number of scientists participating in INDEPTH training each year	10% annual growth in number of scientists participating in INDEPTH training each year	4 MSc students in training 6 training workshops involving 90 participants	6 MSc students in training 4 training workshops involving 30 participants	Approval of the new MSc track in Research Data Management
2. Improve the quality and depth of data collected by member centres	25% of 42 centres on OpenHDS; 25% collecting additional data modules (non-core)	90% of 42 centres on OpenHDS; collecting data 3x/year 50% collecting additional data modules	Not applicable	1 centre on OpenHDS 5 centres collecting non-core HDSS data First training in OpenHDS done	Support from SwissTPH to advance the development of OpenHDS
3. Improve data harmonisation and management across the network	75% of Centres using the INDEPTH Stats (IDMP1)	90% of Centres using INDEPTHStats (IDMP)	None	6 centres on repository 18 on INDEPTHStats	Launch of data repository

10% growth 10% annual 300 494 peer-4. Increase The publications the number of in number growth in reviewed Secretariat publications of papers number publications in must focus in using INDEPTH of papers international in 2014 on published by international published by multi-centre member data by centres each journals journals 10% by 2016 year – both centres each 12 multi-7 multi-centre publications multi-site year centre publications as well as publications single-site

OBJECTIVE 2: To stimulate, co-ordinate and conduct cutting-edge multicentre health and demographic research.

Sub-objective	Intermediate Outcomes by 2016	Long-term Outcomes (2017-2020)	Baseline 2012	Outcome Indicators 2013	Progress
1. Increase the activity level of Working Groups and have 5 new active Working Groups by 2016	5 new active working groups by 2016 All Working Groups with SAC-approved strategy	Working groups covering 90% of top 20 demographic issues/burden of disease	9 working groups were active in 2012.	10 active Working Groups	The work is moving as expected. However, the Secretariat encourages Working Groups to write proposals.
2. Increase the number of multicentre proposals by 10% by 2016	Working groups/ Secretariat generates 10% more proposals by 2016	90% of Working groups developing large scale proposals/ projects	12 proposals were submitted.	7 proposals developed involving more than three HDSS members 20 institutional collaborators	Slide decrease in the number because of continued proposals.
3. Increase the number of multicentre grants and consultancies by 10% by 2016	Working Groups/ Secretariat wins 10% more grants by 2016 (grants as proxy for quality)	10% annual growth in number of grants/\$ value per year	4 grants made to INDEPTH for multicentre research.	6 grants made to INDEPTH for multicentre work	The Secretariat has a resource centre component, which will contribute to increase the number of grants' submissions.
4. Increase the number of multicentre publications by 10% by 2016	10% growth in number of papers published using multicentre data by 2016	10% annual increase in number of publications	12 multi- centre publications	7 multi-centre publications	The Secretariat must focus in 2014 on multi-centre publications

OBJECTIVE 3: To facilitate the translation of INDEPTH findings to maximise impact on policy and practice.

Sub-objective	Intermediate Outcomes by 2016	Long-term Outcomes	Baseline 2012	Outcome Indicators 2013	Progress
1. Increase the number of Systematic Reviews by 10% by 2016	At least 10% new systematic reviews completed 2016	At least three systematic reviews completed each year	None	2 systematic reviews published	Revive the Research to Policy Working Group to pursue this objective. Recruit a Manager
2. Increase the number of Policy Briefs (Secretariat, centres) by 10% by 2016	10% increase in the number of policy briefs being produced by centres and working groups/ Secretariat Recruit Secretariat Policy Expert	10% annual increase in number of policy briefs	None	2 Secretariat policy briefs on the website	Revive the Research to Policy Working Group to pursue this objective Recruit a manager
3. Increase the number of Stakeholder interactions (national, regional and international) by 10% by 2016	10% increase in the number of meetings held between centres & policy makers or between working groups/ Secretariat and policy makers	10% annual increase in the number of meetings held between centres & policy makers or between working groups/ Secretariat and policy makers	3 international meetings Executive Director made 5 presentations at international conferences	3 international stakeholder meetings Executive Director made presentations in 6 international conferences	Funds will be made available to increase stakeholder participation
4. Increase Policy/Practice influence and the number of recommended changes linked to INDEPTH findings by 10% by 2016	Growth in number of policy recommendations linked to INEPTH studies – both adopted and just recommended	INDEPTH network and members as "GoTo" partners for policy makers	Focus was on making data freely and widely available for international access	Board agreed that INDEPTH must now pursue vigorously the objective to facilitate the translation of research evidence to influence policy and practice	INDEPTH will state steps to strengthen policy engagement

FIGURE 2: Logframe of INDEPTH's Strategic Objectives.

2. SCIENTIFIC RESEARCH AND CO-ORDINATION ACTIVITIES

INDEPTH's main business is to perform research to quantify and understand the complex demographic and health transitions in low- and middle-income settings through longitudinal, population-based demographic, epidemiological and cause-of-death data; and to discover what works, for whom and at what cost by conducting intervention research and impact evaluations.

INDEPTH's scientific research and coordination activities are conducted through Working Groups and Interest Groups. In 2013, these groups worked in 12 areas, covering topics ranging from newborn health to environmental pollution to migration. In this section we discuss the groups' key activities in 2013 and outline their purpose and plans for the future.

2.1 Working Groups

Working Groups are the primary engines through which INDEPTH conducts its scientific activities. Each group focuses on a specific research topic or project that has been identified as of priority interest and on which at least three sites wish to work collaboratively. Members are drawn from INDEPTH member sites, the secretariat and the Scientific Advisory Committee. Each has a leader or principal investigator appointed by the Board, usually on the recommendation of the Executive Director.

2.1.1 Adult Health and Aging

Over the last decades, improvements in fighting infectious diseases have led to increases in the prevalence and importance of non-communicable diseases in sub-Saharan Africa and Asia. Adults now live longer, but many, especially as they grow old, suffer from chronic diseases that need to be treated.

The Adult Health and Aging working group aims to examine the effects of this health transition on adults by studying three cohorts of older adults in African settings that have reached different stages of the transition. Its examinations will cover physical and cognitive functioning, cardiometabolic disease, HIV, and productivity. The first survey will begin at Agincourt HDSS in South Africa, and the study is planned over the next three years to extend to Ifakara HDSS in Tanzania and Navrongo HDSS in Ghana. *See Figure 3.* The working group secured funding for the project from National Institute on Aging and National Institutes of Health in 2013.

2.1.2 Migration, Urbanisation and Health

This group seeks to examine the relationship between migration, health and poverty at nine INDEPTH member HDSSs with the aim of contributing to an empirical understanding of the dynamics between migration and health in Africa.

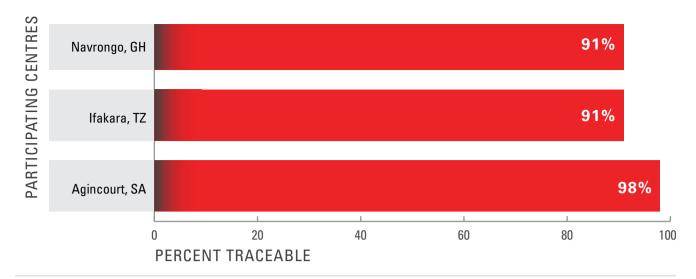


FIGURE 3: Follow up of older adult migrants, 2012.

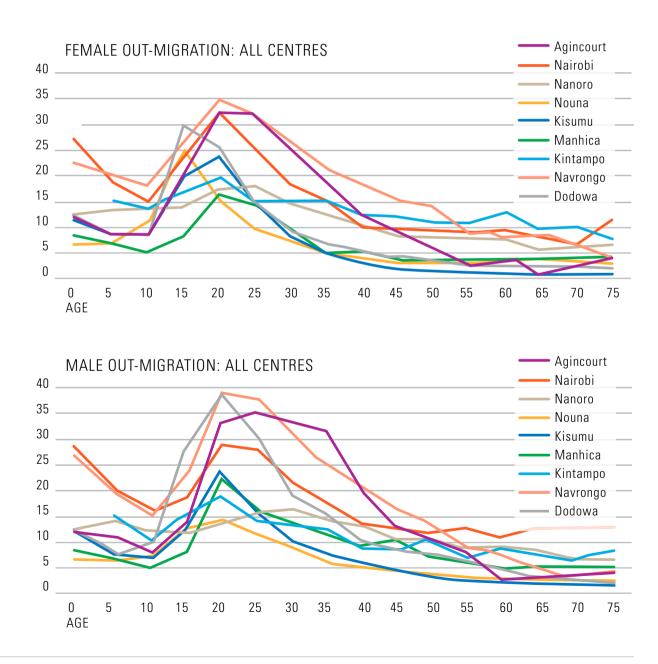


FIGURE 4: Gender specific out-migration in selected INDEPTH member centres.

The Multi-Centre Analysis of Dynamics in Migration and Health group, which is funded by the INDEPTH secretariat through a Sida grant to INDEPTH, held a data analysis meeting on the determinants of migration in Nairobi, Kenya in February 2013. This resulted in the standardisation of the core micro-data produced by each centre. The group's first publication, "Health and Demographic Surveillance Systems: Contributing to an understanding of the dynamics in migration and health", appeared in Global Health Action Journal, 2013. See Figure 4 for results.

2.1.3 Environment and Health

Global environmental change has significant implications for human health, particularly in low-income settings. National and local indicators are needed to monitor the impacts of environmental changes on population health. HDSS sites provide the best longitudinal data for monitoring health in low and middle income countries to understand the associations between environmental changes and health outcomes. The Environment and Health working group seeks to highlight the relationship between climate change mortality and migration of rural populations.

In 2013, INDEPTH secured a grant from UNESCO Ghana to implement a project on climate change mitigation and adaptation in the Sahel and West Africa. The inter-sectoral project, on which INDEPTH will collaborate with UNESCO Ghana and Accra University College of Communication (AUCC), is designed to link existing



Participants at the Climate Change Mitigation and Adaption workshop, September 2013.

climate change networks to strengthen the capacity of local communities to address the challenges of climate change at the sub-regional and national level, with a focus on mitigation and adaptation. Burkina Faso (Sahel) and Ghana (West Africa) are the core sites of the project activities.

A workshop held in Accra, Ghana in September 2013 brought together environmental experts including hydrologists, water resources experts, local stakeholders and policy-makers with environmental media practitioners to ensure that scientific knowledge can be transferred to the national and local levels. Subsequently, core funds were pledged by INDEPTH for a continuation programme that will be coordinated by AUCC. From this was conceived "The Journalists for Climate Change Awareness Group."

2.1.4 Cause of Death Determination

Knowing the cause of death helps policymakers to base interventions on a better understanding of critical diseases. Documenting and understanding cause-specific mortality patterns is at the core of INDEPTH's mission. This working group seeks to standardise methodology across the network as well as ensure the full aggregation and analysis of data.

Eighteen INDEPTH member centres from Africa and Asia participated at the first Cause of Death Determination workshop, held in Belgium in December 2012. Representatives of twelve African centres took part in a second workshop, held in Accra, Ghana in March 2013. This had two goals. The first was to strengthen the standardisation of verbal autopsy data analysis across sites to facilitate pooled data analysis. The second



Participants at the Cause of Death Workshop in Accra March 2013.

was to analyse and interpret findings and use them to draft papers on cause of death for inclusion in a supplement of the Global health Action journal. A similar workshop, attended by representatives of nine HDSS centres in Asia, was held in Bangkok, Thailand in October 2013. *Preliminary results presented in Figure 5.*

The working group has so far conducted a standardised analysis of 114,465 deaths at 22 INDEPTH HDSS sites, of which 102,258 had verbal autopsies completed, representing over 12,424,657 person-years of observation.

2.1.5 Maternal and Newborn Health

In 2012, 6.6 million children died before their fifth birthday. As under-five mortality rates fall in richer developing regions, the majority of child deaths are occurring in low and middle incomes countries, most of which are in sub-Saharan Africa and Southern Asia. A growing proportion of child deaths (42%) occur at or around the time of birth. Likewise, in 2010 an estimated 287,000 mothers died from pregnancy-related causes. Millions more suffer from complications resulting in illness and injury.

As all INDEPTH HDSS member centres currently track pregnancies, newborn births and deaths, the network provides an excellent platform for tracking newborn health interventions as well as morbidity and mortality trends on a longitudinal basis. The Maternal and Newborn Health working group has engaged 22 INDEPTH member sites and secured financial support from the South Africa Medical Research Council and Save the Children, as well as support from INDEPTH using the Sida core funding.

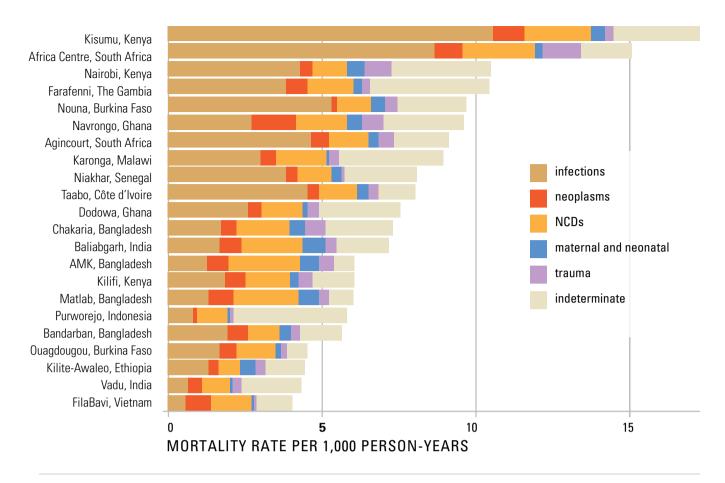


FIGURE 5: Major causes of death by site in INDEPTH sites - Draft results.

The group held a four-day data analysis and writing workshop in Ho, Ghana in July 2013, where participants agreed on standard definitions; prepared individual level datasets for analysis; conducted comparative analysis of maternal and newborn mortality based on existing data; drafted centre–specific and multi-centre papers based on identified research questions that would be supported by the existing data; and standardized tools for tracking pregnancies and their outcome. The meeting also developed a newborn research agenda for the INDEPTH Network and drafted a proposal for funding.

At a meeting in Johannesburg, South Africa in the same month the group drafted papers on neonatal mortality based on cross-site pooled datasets. Two draft manuscripts for publication, covering stillbirths and neonatal deaths across HDSS sites, are nearing completion. The team is currently focused on capacity strengthening and the development of a tool kit for improving the capture of maternal and newborn related events at HDSS sites.

2.1.6 Mental Health and Neurology

Over five million people in sub-Saharan Africa are estimated to suffer from epilepsy, with particular peaks for young adults (aged 20-40). While researchers understand the high prevalence of the disease, actual estimates of the burden of the disease, risk factors and outcomes remain elusive.

The Mental Health and Neurology group, made up of Kilifi, Agincourt, Iganga-Mayuge, Kintampo and Ifakara HDSS centres, is seeking to study the prevalence, risk factors and outcomes of epilepsy. In 2013 the team completed its fieldwork in all the HDSS

centres, analyzed the data and prepared the data for sharing. Documentation of data was completed and forms part of the first working group-related datasets included in the INDEPTH Data Repository (see below).

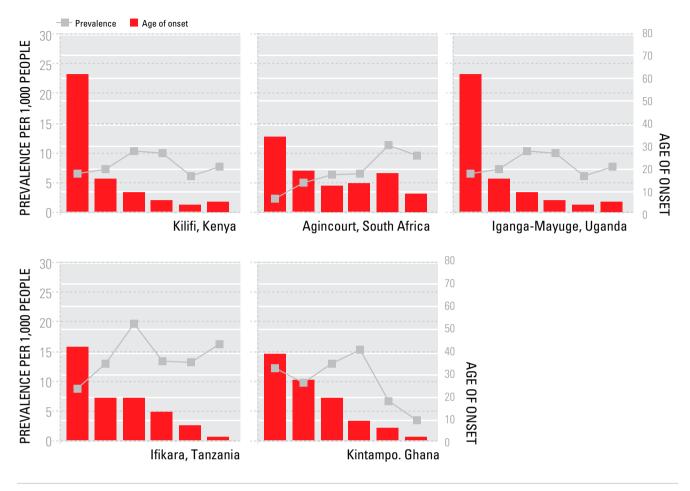


FIGURE 6: Age-specific prevalence and age at onset of active convulsive epilepsy in the five centres They also have a publication in *Lancet Neurology:* See Ngugi AK et al. (2013) "Prevalence of active convulsive epilepsy in sub-Saharan Africa and associated risk factors: cross-sectional and case-control studies."

2.2 Interest Groups

The Working Groups are supported by and often formed by Interest Groups, assemblies of scientists from HDSSs who come together, usually virtually, to discuss common research interests. Interest Groups can upgrade to Working Groups or continue as discussion groups to pool and develop knowledge on particular research themes and issues.

Below we outline the progress of the six interest groups that were active in 2013.

2.2.1 Social Science Research in INDEPTH

This group was launched in 2013 and aims to help scientists in HDSS centres with qualitative analysis. The first qualitative data analysis workshop was held in Pune in India in September 2013. It trained and guided participants in the preparation of social science-related papers for publication, based on health and demographic surveillance system data from INDEPTH member centres. Participants came from HDSS centres in five countries in Africa and three in Asia. The drafting of a social science paper for potential publication was a further outcome of the workshop.



[FROM LEFT] Participants at the Social Science Research Workshop in Pune India, 16-20 Sept 2013; participants at the Household Dynamics Workshop in Accra, Nov 2013.

2.2.2 Household Dynamics

The household is the basic building block of society and the unit of production as well as of reproduction. It is the primary context of socialization and decision-making regarding the nutrition, health care and schooling of children. The household is also a key context for the regulation of new unions, fertility, and migration. Almost all social institutions hinge on the household.

Household structure is not static. Children may move from one type of living arrangement to another: living with two parents, living in a step family household, living with a single parent, living with siblings without adults, living apart from biological parents. Despite increasing changes being observed in connection with the structure and composition of households in developing countries, little is known about the relationship between changes in children's living arrangements and their wellbeing indicators.

Against this background, the Household Dynamics interest group organized a data analysis workshop on the effect of changes in children's living arrangements on their health and education outcomes as well as on sexual intercourse debut in low and middle income countries. The workshop, held in Accra, Ghana in November, aimed to compare definitions and measurement of key concepts; to standardise tools to enable comparison between INDEPTH member sites; to conduct comparative statistical analysis of the relationship between changes in children's living arrangements and their wellbeing outcomes; to draft papers on this relationship; and to prepare a special issue on the topic for the *African Population Studies* journal.

2.2.3 Indoor Air Pollution

Since 1993, the World Bank has listed indoor air pollution (which occurs because of biomass combustion) as one of the main contributors to the worldwide burden of death and disability. The INDEPTH Interest Group on indoor air pollution seeks to assess its impact on health outcomes and to identify and determine how to implement potential interventions. The team aims to monitor population impact by leveraging longitudinal HDSS data and combining it with pregnancy outcome data and cause-specific mortality data. The group's proposed INDEPTH household air quality improvement intervention study will seek to understand the decrease in the risk to respiratory health among children and their mothers in HDSS settings in Africa and Asia as a result of the introduction of improved cooking stoves and improved ventilation in homes. The group is currently seeking funding for the project.

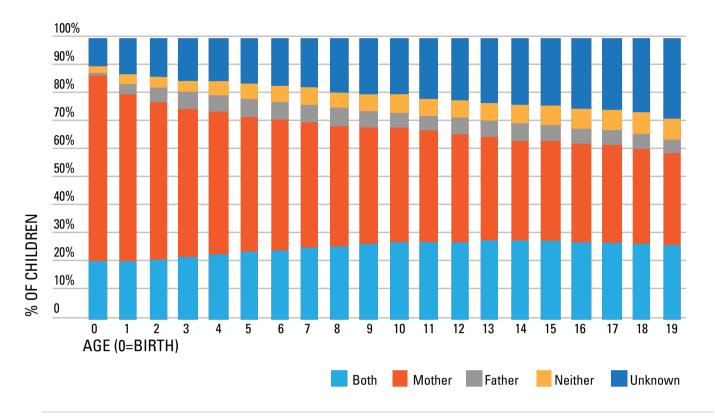


FIGURE 7: Living arrangement at birth and subsequent birthdays.

2.2.4 Antibiotics Resistance

The World Health Organisation has described antibiotic resistance as a 'serious, worldwide threat to public health,' that is 'happening right now in every region of the world.' It has warned, too, that we risk a 'post-antibiotic future' where resistance to antibiotics renders many of them useless. The WHO has acknowledged the need for INDEPTH to play a role in antibiotic resistance research. This interest group comprises nine HDSS sites in Africa and Asia. In 2013 it submitted a pre-proposal to Wellcome Trust for a study which aims to examine the flow of antibiotic resistant genes between the community and hospital in low and middle income countries.

2.2.5 Chronic Diseases and Cancer in Africa

The large burden of non-communicable diseases (NCDs) is increasingly becoming apparent in low- income countries where childhood illnesses and infectious diseases are being successfully tackled. The United Nations High Level Meeting on NCDs, including cancer, recognised the need to strengthen health systems by building on existing services such as those for maternal health. As a result of increasing calls for non-vertical health system approaches, women's cancers will begin to be addressed in a life-course approach alongside maternal health.

This interest group links INDEPTH demographic surveillance sites in Tanzania, Ethiopia and Ghana with the African Cancer Registry Network and the Union for International Cancer Control. The network aims to generate better knowledge on female reproductive cancer epidemiology, biology and socio-cultural attitudes. In particular it aims to help strengthen monitoring systems to improve and extend epidemiological data on female reproductive organ cancers; to help develop a cancer prevention and care approach adapted to African primary care systems; to conduct clinical research on the

biology of female cancers; and to develop networks for stronger collaboration between research institutions, civil society networks and NGOs.

2.2.6 Tuberculosis

The Millenium Development Goals to halt tuberculosis incidence and halve prevalence and mortality by 2015 will not be reached for Africa, and the new goal set by WHO's STOP TB partnership is to eliminate TB by 2050, defined as less than one case per 1 million. HDSS sites are well placed to demonstrate advances both in assessing the true magnitude of the TB burden and in implementation of effective low-cost interventions.

The Population-based Research on Tuberculosis Interest Group comprises four African HDSS centres along with Vadu HDSS in India. The group is designing and testing a low cost TB diagnostic tool as well as identifying ways to target diagnosis and treatment at those most likely to have the disease. It also seeks to demonstrate how the simple clinical score it has developed can be implemented in low resource settings, pilot its use across sites and encourage policy makers to support its rollout. In 2013 the group presented papers and held a workshop at the INDEPTH Scientific Conference.

The large burden of non-communicable diseases (NCDs) is increasingly becoming apparent in low-income countries where childhood illnesses and infectious diseases are being successfully tackled.

2.3 Big Projects

INDEPTH Network large projects are research platforms that bring together a number of HDSS sites to answer specific questions. The research principal investigators coordinate all big projects in collaboration with the INDEPTH secretariat.

2.3.1 INESS

The INDEPTH Effectiveness and Safety Studies of Anti-malarial Drugs in Africa (INESS) is an exciting new platform that aims to enable African researchers to carry out large Phase IV trials. This will result in systematic, evidence-based reviews of the comparative effectiveness and safety of malaria drugs in many widely used drug classes, and the application of the findings to inform public policy and related activities in local settings.

A planning workshop was held at Ho, Ghana in March 2013 in preparation for the launch of the Eurartesim study in April 2013. In this study, INDEPTH is collecting safety data on the use of the artemisinin-based combination therapy Eurartesim in real-life conditions in the HDSS sites of Nouna in Burkina Faso and Navrongo in Ghana. Five other sites will take part in the project as it develops. An INESS paper was published in the Malaria Journal, titled 'Access to artemisinin-baseds anti-malarial treatment and its related factors in rural Tanzania'.

2.3.2 The INDEPTH Health Transition Into Adulthood Study (IHTAS) Project

Adolescents (10-19 year-olds) make up one sixth of the world's population. Nearly 90% of them live in low and middle income countries (LMICs). Adolescent health is not only important because of mortality and morbidity during the second decade of life. Its effects shape the future health of adults.

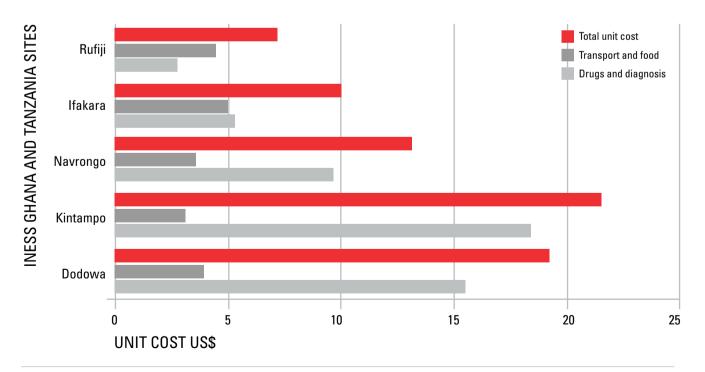


FIGURE 8: Average Costs of treating Fever episode in Tanzania & Ghana.

In late 2013, INDEPTH, in collaboration with the London School of Hygiene and Tropical Medicine, submitted a proposal to potential funders for a major five-year research project on adolescent health, with a focus on adolescent sexual and reproductive health, known as the INDEPTH Healthy Transitions to Adulthood Study (IHTAS). This will involve two linked but stand-alone cluster-randomised plausibility trials (one in each of the two HDSS centres involved) examining the effect of the introduction and promotion of a package of adolescent health services on utilization of health services by adolescents. The interventions that will be evaluated within the trial will include making the package of adolescent health services available within local health facilities, training and supporting health workers to provide adolescent-friendly health services, promotion of the adolescent health services within the population, provision of performance-related incentives to health facilities, and (in one trial arm) provision of individual cash incentives for utilization of the preventive adolescent health services to adolescents.

The two participating HDSS centres are currently implementing phase 1 of the project. This phase reviews relevant policies and program documents on adolescent health services and explores and analyses HDSS data relating to adolescents and young adults. Phase two will be the analysis of existing and additional data collected by the two centres. Based on the findings from phases one and two, a cohort of adolescents will be recruited and followed over time.

2.3.3 Malaria Attributable Mortality

The Malaria Attributable Mortality project began in 2013. It aims to use existing verbal autopsy data from HDSS sites to examine differences in malaria mortality between sites, with a view to highlighting potential reasons for variation and recommending policy measures for improving health systems and access to preventive measures such as bed nets and light traps. In a presentation at the INDEPTH Scientific Conference in 2013 the group showed that there was strong seasonal and inter-annual variation of mosquito densities in the nine sites studied so far. All INDEPTH member centres have been sent templates to elicit their own data on malaria mortality.

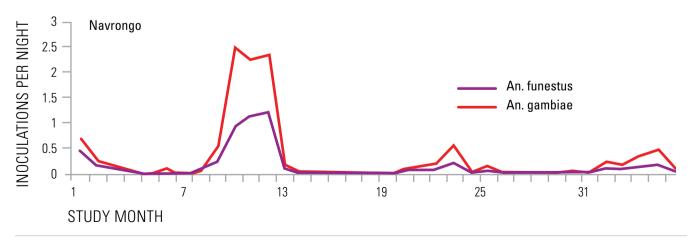


FIGURE 9: Mosquito nets diversity in Navrongo, Ghana

2.3.4 AWI-Gen

The long-term vision of this collaborative centre is to build capacity in Africa that leads to an understanding of and response to the interplay between genetics and epigenetic and environmental risk factors for obesity and associated cardiometabolic disease in Sub-Saharan Africa. The objective is to develop capacity that enables the use of genomics in addressing questions of biomedical importance. The collaborative centre was consolidated under the auspices of the University of Witwatersrand (Wits) and the INDEPTH Network. It will capitalize on the strengths of existing longitudinal cohorts including the urban Soweto Birth to Twenty Cohort) and rural Agincourt research platforms in South Africa, along with well-established INDEPTH HDSS centres in Kenya, Ghana, Tanzania, Burkina Faso and South Africa.

The objective is to develop capacity that enables the use of genomics in addressing questions of biomedical importance.

Genetic, genomic and at a later stage epigenetic studies will be conducted on biological specimens already collected and additional prospective sampling, with harmonized phenotyping across sites. The project aims to collect 2000 DNA samples following informed consent from each of six sites, two each from western (Ghana and Burkina Faso), eastern (Kenya and Tanzania) and southern Africa (South Africa), contrasting urban and rural communities' risk of obesity and related metabolic disorders.

2.3.5 Vaccination & Child Survival (Optimunise) Projects

In 2008-2009 the INDEPTH Network Working Group on Vaccination and Child Survival secured funding to conduct multi-site studies for a project entitled 'Optimizing the impact and cost-effectiveness of child health intervention programmes of vaccines and micronutrients in low-income

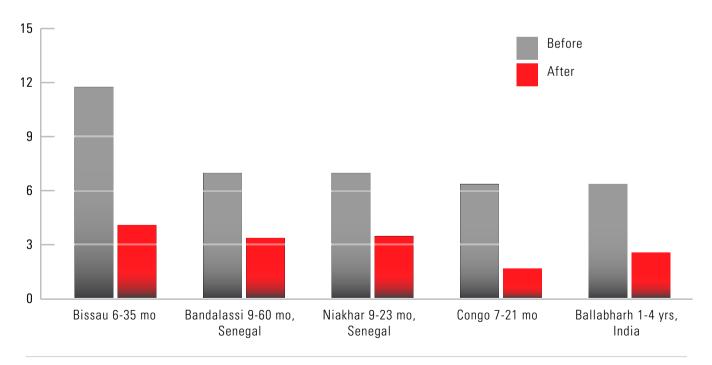


FIGURE 10: Measles Vaccine introduced mid-1970s based on antibody studies Before-After measles vaccination: Annual mortality rate in (INDEPTH) community studies.

Source: Peter Aaby (2014). INDEPTH WG Child survival – the impact of interventions in childhood. Presentation at the INDEPTH Funders meeting, Stockholm 26 April 2014.

countries', or 'Optimunise' for short. This involved three INDEPTH HDSS centres in Nouna (Burkina Faso), Navrongo (Ghana) and Bandim (Guinea Bissau). The Group held its third consortium meeting in January 2013 in Bandim, Guinea Bissau with sixteen participants attending from the three participating centres. At a further meeting in Accra in June, the group drafted a paper for publication, entitled 'The non-specific effects of vaccines and other childhood interventions: The contribution of INDEPTH Health and Demographic Surveillance Systems.' The group also held a side meeting at the INDEPTH Scientific Conference in Johannesburg.

The Optimunise research has so far shown that an early measles vaccine protects neonates against hospitalizations, especially for respiratory infections. It has also shown that a single dose of BCG vaccine has a significant protective effect on neonates.

2.3.6 EVIDENCE

EVIDENCE is a five-year cooperative agreement awarded to Population Council in partnership with INDEPTH Network, International Planned Parenthood Federation, Management Sciences for Health, PATH, Population Reference Bureau, and University Resource Network. The project is investigating which strategies work best in improving, expanding, and sustaining family planning services. It is also evaluating how to implement and scale up those strategies. Critical to the Evidence Project is translating this knowledge and working with stakeholders to apply the evidence and to build capacity in using implementation science.

The Optimunise research has so far shown that an early measles vaccine protects neonates against hospitalizations, especially for respiratory infections.

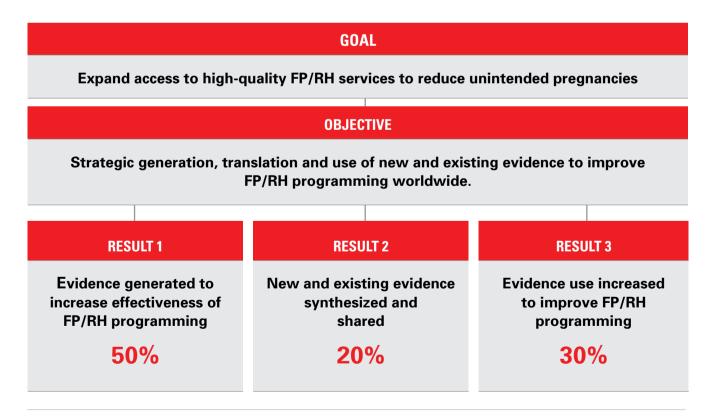


FIGURE 11: The EVIDENCE Project Results Framework.



Participants at IDAMS meeting in Accra, Feb 2013.

The meeting assessed the available evidence on the presence of dengue in Africa, identified knowledge gaps, and discussed the need for future research and eventually control strategies.

2.3.7 IDAMS Consortium

Dengue fever is the most rapidly spreading mosquito-borne disease worldwide and has been identified as a global public health concern, especially in tropical and sub-tropical regions of the world. The World Health Organization estimates that 50-100 million dengue infections occur each year and that almost half of the world's populations live in countries where dengue is endemic. In view of the magnitude of the problem, the International Research Consortium on Dengue Risk Assessment, Management Surveillance (IDAMS), of which INDEPTH is a member, funded by the European Union 7th Framework, collaborated with the INDEPTH Secretariat to organise a meeting of experts in Accra in February 2013.

The meeting assessed the available evidence on the presence of dengue in Africa, identified knowledge gaps, and discussed the need for future research and eventually control strategies. The meeting drew research scientists from Oxford University, Liverpool School of Tropical Medicine, Pasteur Institute, Kenya Medical Research Institute, CDC Kenya, Bonn University Medical Centre, and from INDEPTH member Health and Demographic Surveillance Systems centres in Ghana, Ethiopia, Guinea Bissau, Tanzania, Mozambique and Burkina Faso. It is expected that research results and discussions from this collaborative venture of the IDAMS consortium will result in a publication.



NDEPTH Network etter Health Information for Better Health Policy 12th INDEPTH SCIENTIFIC CONFERENCE JOHANNESBURG, SOUTH AFRICA 28-31October 2013 Public Research Public Res

2.4 INDEPTH Scientific Conference

The 12th INDEPTH Scientific Conference (ISC 2013) was held at the School of Public Health, University of the Witwatersrand in Johannesburg, South Africa from October 28-31, 2013 on the theme: "Fitting together the health data puzzle: The contribution of INDEPTH Health and Demographic Surveillance Sites (HDSSs) to strengthening National Health and Information Systems (NHIS)". Co-hosted by the Wits School of Public Health and Statistics South Africa (Stats SA) in collaboration with the three INDEPTH member HDSSs in South Africa (Africa Centre, Agincourt and Dikgale), the conference was attended by scientists from around the globe and offered high quality sessions and networking opportunities.

The ISC 2013 conference welcomed well over 250 participants including 164 self-funded scientists from different callings, researchers, funders, academicians and numerous partners. There were also 14 young scientists funded by INDEPTH. The majority of the member centres of the Network participated. There were also delegates and representatives from various sister organisations like the Kenyan National Bureau of Statistics and the UN Economic Commission for Africa based in Addis Ababa, Ethiopia.

In his opening keynote address, the Vice Chancellor of the Wits University, Prof. Adam Habib called for an equitable research partnership between the Western countries and low- and middle-income countries. He said donors should not dictate to their recipients because they were providing funds but rather build a fair partnership which was mutually beneficial. Prof. Habib said freedom gives one the right to make decisions and in order to make the right decisions one must have adequate information. 'You can't truly make right decisions without adequate information,' he said. He commended the INDEPTH network for the health and demographic information it gathers, and for building capacity and representing transnational partnerships which were crucial to address global challenges. Prof. Habib further commended INDEPTH for bringing leaders from the global South together to maximise their capacities in order to compete on a global scale.







participants in Johannesburg, South Africa; poster; opening speakers (left to right): Laetitia Rispel, Marcel Tanner, Adam Habib, Osman Sankoh, Sharon Fonn, Kathy Kahn and Pali Lehohla; Prof. Adam Habib, Vice Chancellor Wits University; Mr. Pali Lehohla, Statistician General, Republic of South Africa.









[LEFT TO RIGHT] Prof. Osman Sankoh; Prof. Marcel Tanner, Board Chair and Director Swiss TPH; Prof. Laetitia Rispel, Head of Wits School of Public Health; Prof. Kathy Kahn of Agincourt HDSS and MRC/Wits Rural Public Health Unit; Prof. Sharon Fonn, Wits University.

The Statistician General of Statistics South Africa (Stats SA), Mr. Pali Lehohla, stressed in his remarks that census data and civil registration and vital statistics (CRVS) are priority areas for the African Union (AU). He said that "INDEPTH's longitudinal data are the pathways through which civil registration can be used to understand what the challenges are."

Prof. Osman Sankoh, the Executive Director of the INDEPTH Network, said that INDEPTH was developing the requisite information base, providing high quality longitudinal data about the lives of people and how development policies and programmes impact on those lives.

The Board Chair of INDEPTH, Prof. Marcel Tanner, urged the Network to stay focused and committed to its core business; to improve quality of the information and data generated and be innovative in coming up with methodologies that are more effective in collecting data.

Prof. Laetitia Rispel, Head of the School of Public Health at the University of the Witwatersrand welcomed participants to Johannesburg. She congratulated INDEPTH for its pioneering work in health and population research, providing robust answers to important questions in development.

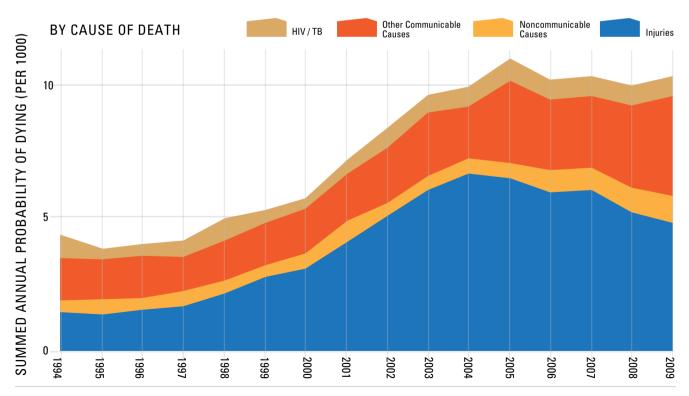


FIGURE 12: Findings from member centres underscored Mortality transition over 15 years, rural SA 1994 – 2009. Source: Tollman et al, *Lancet* 2008; Mayosi et al, *Lancet* 2009.

Another highlight of the official opening session was a presentation by Prof. Kathleen Kahn of Agincourt HDSS, South Africa that showcased the work of the three INDEPTH member centres in South Africa namely Africa Centre, Agincourt and Dikgale. The presentation highlighted the combined contributions of these centres to research in academia, capacity research capacity building as well as policy responses at the district/provincial levels, national and even global levels.

The ISC 2013 was formally declared open by the final speaker, Prof. Sharon Fonn (then Acting Dean of Faculty of Health Sciences). She emphasized that the School would continue to collaborate with INDEPTH in training the next genre of researchers.

2.4.1 Scientific sessions and presentations

Scientific presentations were delivered in plenary and parallel sessions by scientists from INDEPTH member centres and from partners and collaborators. There were a total of 32 sessions on a wide range of contemporary health and demographic surveillance issues, all designed to present research findings and foster new ideas and collaborations. During the four-day conference over 120 scientific presentations were made. The presentations and sessions covered broad contemporary topics that included cause-specific mortality, linkages between health information systems and health research systems, vital events registration, neonatal health and early childhood survival, burden of diseases, urban health, adult health, understanding health and care seeking, informing policy and programmes, advances and opportunities in data capture, epidemiological and demographic transitions, and morbidity surveillance. The plenary and parallel sessions were complemented by discussion panels, working and interest group meetings, poster sessions, and pre-conference and post conference workshops.

2.4.2 Scientific awards

Instituted in 2002 by the Board of Trustees of the INDEPTH Network, at every ISC the INDEPTH Prize for Excellent Research in Population and Health based on Health and Demographic Surveillance Systems are presented. The objective of the award is to stimulate INDEPTH researchers to undertake innovative work leading to extraordinary results that have the potential to impact on policy and practice. There are three categories of scientific awards: prize for best research published during the period preceding the ISC, prize for best regular poster, and prize for best poster by a young scientist.

The INDEPTH Prize for the best research article published in an international journal in the last two years before the conference was awarded to Clark SJ et al for the paper based on data from Agincourt titled: 'Young Children's Probability of Dying before and after Their Mother's Death: A Rural South African Population-Based Surveillance Study', PLoS Med, 2013;10 (3):e1001400. HDSS core mortality data for Agincourt, South Africa were collected on children 0–5 years of age from January 1, 1994 to December 31, 2008. The study showed that young children in lower









[FROM TOP] The Executive
Director delivering the State
of the Network address;
Prof. Peter Byass, SAC Chair
presenting INDEPTH multicentre work on Causes of
death; SAC Member,
Prof. Stacy Gage (left)
poses with some of the
young scientists; participant
reviewing some of the posters.



[CLOCKWISE FROM TOP LEFT] Dr. Barni Nor of Sida; Dr. Michael Chew of the Wellcome Trust; Prof. Cyril Engmann, Bill and Melinda Gates Foundation; Board Chair Marcel Tanner with Head Wits SPH Laetitia Rispel and Deputy DG of Statistics South Africa, Risenga Maluleke at the Constitution Hill Reception; Ms. Kristen Stelljes, William and Flora Hewlett Foundation; Dr. Richard Suzman of NIA/NIH; Deputy Chief Justice addressing delegates at the Constitution Hill in Johannesburg.

[Funder representatives] appreciated INDEPTH's efforts to generate, manage and share high quality data and commended the Network for its worthy endeavours.

income settings are more likely to die not only after their mother's death but also in the preceding months, when she is seriously ill.

The INDEPTH Prize for best regular poster went to Stephane Helleringer of Columbia University for the paper based on data from Niakhar HDSS titled: Improving siblings' survival histories: results from a randomized trial in Niakhar (senegal). The Prize for the Best Poster by a Young Scientist went to Ms.Georgina Badu-Gyan from Dodowa HDSS for her paper based on Africa Centre data titled: Factors Associated With Uptake Of Rotavirus And Pneumococcal Conjugate Vaccines Among Under-Five Children: Evidence From The Africa Centre HDSS. It was pleasing to note that Georgina is one of the INDEPTH-funded recent graduates from the Wits MSc population-based field epidemiology (PBFE) programme (see section 3.1.1) and the poster based on a research paper accomplished in partial fulfilment of her degree at Wits.

Representatives of funding organisations from the Wellcome Trust (Dr.Michael Chew), Sida/Research Cooperation (Dr. Barni Nor), Bill & Melinda Gates (Prof. Cyril Engmann) NIH/NIA (Dr.Richard Suzman) and the Hewlett Foundation (Ms. Kristen Stelljes) spoke at the conference. They appreciate INDEPTH's efforts to generate, manage and share high quality data and commended the Network for its worthy endeavours. However the funders urged the organisation to make more efforts towards facilitating the translation of HDSS research evidence to influence policy and practice.

ISC participants had a rare opportunity of being hosted to a dinner at Constitution Hill. The occasion was graced by the Deputy Chief Justice of the Constitutional Court of the Republic of South Africa and the Chancellor of the University of Witwatersrand, Justice Dikgang

Moseneke as well as the Deputy Director-General, Statistics South Africa, Risenga Maluleke. Justice Moseneke urged scientists to exhibit firmness, neutrality and independence in their work to enable governments and policy-makers have confidence to implement their findings to improve the lives of the poor and vulnerable in society.

2.4.3 Evaluation of the ISC

The final words came from the Independent Assessor, Prof. Stig Wall (Umea University in Sweden) who summarised the conference topics using a bibliometric diagramme.



2.5 INDEPTH brainstorms with major stakeholders on statistical data analysis

A three-day meeting held in Accra in April 2013 with INDEPTH partners from the University Of Ghana, University of Southampton, UK, Heidelberg University in Germany and the South African Medical Research Council brainstormed novel methods of analyzing the quantum of data generated by INDEPTH member centres over the years and shared ideas on ensuring that more cross-site papers are produced and published in future. Participants produced a list of statistical analyses that can be undertaken using aggregated data from the member centres as well as further analyses that require more than the existing disaggregated level data.

The Executive Director of INDEPTH, Prof. Osman Sankoh, used the meeting to pre-launch INDEPTHStats, a platform for visualizing and disseminating longitudinal health and demographic surveillance system data on population, fertility, migration and mortality from the 48 INDEPTH member HDSS centres. The aim of this tool is to provide researchers, government officials, policy makers, academia and the general public with basic health and demographic information for a better understanding of health issues and population trends.



Prof. Stig Wall, Independent Assessor of Umea University and Editor-in-Chief of *GHA Journal* and his summary of the topics handled at the ISC.

3. CAPACITY STRENGTHENING AND TRAINING ACTIVITIES

During the year under review, INDEPTH placed significant emphasis on capacity strengthening and training. Apart from growing the talent of scientists in member centres and improving the capacity of their institutions to conduct world class research, INDEPTH has so far supported 40 students to undertake MSc studies in population-based field epidemiology at the University of Witwatersrand in South Africa. In addition, in 2013 INDEPTH, in partnership with the University of the Witwatersrand, introduced a new master's programme in research-oriented data management (RDM).

3.1 Scientific Development and Leadership Programme

The Scientific Development and Leadership programme is the flagship of INDEPTH's capacity strengthening and training initiatives. This programme has the following components: MSc. in Population-based Field Epidemiology at Wits University, South Africa; developing the curriculum for a MSc. in Research Database Management at Wits University, South Africa; MPH at the James P. Grant School of Public Health, BRAC University, Bangladesh; and Masters' training that may be supported elsewhere if considered relevant to the programme, as well as partial support to PhD training at South-based universities or on sandwich programmes.

3.1.1 Master's Training in Population-Based Field Epidemiology (PBFE)

Established in 2005 in partnership with the Wits School of Public Health at the University of the Witwatersrand (Wits), in Johannesburg, South Africa, this programme is built around an 18-month Master's training in Population-based Field Epidemiology. It consists of two main components: one year of coursework and six months of practical training on the conduct of a research project in a field setting at one of several INDEPTH-Wits accredited HDSS learning centres. Now in its eighth year, the programme has supported a total of 40 MSc students since inception. In July 2013, two students completed the programme, while four new funded students were enrolled in February.

3.1.2 Master's Level Training For HDSS Data Managers Through a Research Database Management (RDM) Track

INDEPTH over the years has identified the urgent need to increase and strengthen capacity in advanced database management for research to support the ever-increasing quantity of health research conducted in low and middle income countries. This has been made possible by developing a new track in Research Database Management (RDM) to be incorporated into the existing partnership with the Wits University, South Africa. The RDM has been developed as a specialist qualification

with specific reference to HDSSs and embedded within the existing MSc in Population Field-based Epidemiology.

This track is expected to produce data scientists capable of understanding the research process, interacting with researchers and carrying out research-specific responsibilities such as data collection and storage. It will also help them in managing the design, implementation and operation of a system to extract, clean and produce analytical datasets from research databases for use by researchers, and by an international community of investigators under controlled access conditions. The graduates are expected to be able to lead data management teams, guide data management activities from data collection through to data processing and data analysis for publication, and also collaborate with scientists to develop data structures and apply data management software during various stages of research projects.

Supported by an INDEPTH grant from Sida/Research for Cooperation, Wits School of Public Health made considerable progress towards the final roll out and launch of the programme in 2013. A workshop at Wits School of Public Health in January reviewed the proposed curriculum for the course. Further to the workshop, two of the developed modules that form part of the RDM Masters' track were piloted by the Wits SPH as short courses. After the proposed RDM track was officially approved by Wits University, the course was advertised and applications received for the first batch of students in 2014. Eighteen students have been accepted, including a dozen staff from member HDSSs in six countries.

The graduates are expected to be able to ... collaborate with scientists to develop data structures and apply data management software during various stages of research projects.

3.1.3 Master's Training At The James P. Grant SPH

In view of the success of the MSc training programmes developed in partnership with the Wits School of Public Health, several HDSS member centre leaders are anxious to have their staff go through the programme. However, since Wits is unable to cater for this growing need, the Secretariat is exploring other avenues for expanding the training options for the staff of member centres, especially at select South-based universities. In 2013 therefore, the Secretariat offered funding to two students to join the 2013/2014 batch of the MPH program with James P Grant SPH at BRAC University in Bangladesh.

3.1.4 Master's Training Elsewhere

To overcome other challenges faced by applicants from HDSSs such as the language barrier, there are attempts by the Secretariat to extend opportunities to non-Anglophone young scientists through partial support. One such option is the Masters' training in Health Economics and Health Care Management at the Bangkok Chulalongkorn University in Thailand. In 2013, INDEPTH provided partial support to a student from Filabavi HDSS in Viet Nam for MSc. training in Health Economics and Health Care Management at the Bangkok Chulalongkorn University in Thailand. Another partially-funded student successfully completed the same course in 2013.



[FROMTOP LEFT] Ms. Anne Makumi, Kilifi HDSS (Kenya); Ms. Georgina Badu-Gyan, Dodawa HDSS (Ghana); the WITS School of Public Health.



[CLOCKWISE FROM TOP LEFT] Four funded students for Wits MSc PBFE 2013: Ms. Irene Azindow (Kintampo HDSS, Ghana), John Paul Kasule (Rakai HDSS, Uganda), Ms. Patricia Gweliwo (Navrongo HDSS Ghana), and Millogo Tieba (Kaya HDSS Burkina Faso); Participants at the Wits/INDEPTH Workshop in Johannesburg 25-26 Jan 2014.

3.1.5 Doctoral Level Training Support

The Secretariat also tries to facilitate movement from MSc to PhD level training. In 2013, we provided partial support for two PhD students who will begin their studies in 2014 in South-based universities or sandwich programmes.

3.2 Young Scientists

As part of our commitment to strengthening of the research capacities of the next generation of scientists, every other year an average of fifteen young scientists from INDEPTH member HDSSs are given travel awards to attend and present posters at INDEPTH's scientific conference (ISC). As a condition for the travel award to young scientists, they are required to submit to the Secretariat a full draft paper at least a month before the ISC.

For the 2013 ISC more than 60 abstracts were received from young scientists. Fourteen young scientists were funded to attend and present posters at the conference. At a pre-ISC Young Scientists workshop, Prof. Stacey Gage (Tulane University) gave a lecture on how to prepare posters. This was complemented by a practical component involving poster reviews and critiques of all the young scientists' posters indicating areas of improvement. Prof. Cheryl Moyer (University of Michigan) gave a lecture on translating data into publishable manuscripts. Following review of their drafts by senior INDEPTH scientists, the young scientists have been revising the manuscripts with the aim of turning them into publishable manuscripts.

3.3 INDEPTH Training and Research Centres of Excellence (INTREC)

The WHO's Commission on Social Determinants of Health argued in 2008 that the dramatic differences in health status between and within countries are intimately linked with degrees of social disadvantage. In 2012, INDEPTH launched the INDEPTHTraining and Research Centres of Excellence (INTREC) project funded by the European Commission. INTREC action is envisioned to address health inequities in LMICs in Africa and Asia by developing sustainable capacity for research for health and its social determinants, and by facilitating the translation of research findings into policy and practice. INTREC also advocates for gender equity in health research by promoting women scientists.

INTREC activities are focused on four African (Ghana, South Africa, Tanzania, Kenya) and four Asian countries (Indonesia, Viet Nam, Bangladesh, India). Two training centres are being developed, in Ghana and in Indonesia. In 2013, the project's activities included the development of a training curriculum for social determinants of health, to provide INDEPTH scientists the tools to conduct both qualitative and quantitative research into the topic, and the training of 30 INDEPTH scientists. The first block (online course) on the framework of Social Determinants of Health was launched in November 2013 and runs until March 2014. Thirty trainees registered for the course, consisting of representatives of nineteen HDSSs in nine countries.

Also in 2013, in Accra, Ghana in March, INTREC held its first International Stakeholder Conference. Its theme was "Strengthening research and policy on social determinants of health in low and middle income countries in Asia and Africa". The 50 delegates to the meeting came from 11 countries and included representatives from INTREC partners, members of INTREC's International Advisory Committee, senior scientists from INDEPTHs health and demographic survey sites, policy makers, and experts in the field of education or research on social determinants of health.

3.4 Training Workshops

Training workshops remain a primary vehicle through which specific skills and improved methodological developments are conveyed to the wider membership of the INDEPTH network. The Secretariat places much emphasis on strengthening the capacity of its member centres in order to enhance their scientific and administrative productivity. In this regard, in 2013, a comprehensive programme for training was implemented throughout the year. In addition to those training sessions mentioned above and those embedded into some working group activities, the following workshops were organized for member centres.







[TOP] Emmanuel K. Darkwa (Dodowa HDSS, Ghana), JPS School of Public Health.

[BOTTOM] Funded Masters Training students at Chulalongkorn University: Ms. Nghien Nguyen Minh Trang and Ms. Le My Lan (Filabavi HDSS Vietnam).



[CLOCKWISE FROM TOP] Young Scientists at the ISC2013 in Johannesburg; Strengthening Climate Mitigation and Adaptation in the Sahel and West Africa Workshop; INTREC Stakeholders meeting in Accra, March 2013.

3.4.1 HDSS Cohort Profiles in International Journal of Epidemiology (IJE)

An agreement was reached in 2012 with the International Journal of Epidemiology (IJE) to publish cohort profiles of all INDEPTH member HDSSs. The first cohort profile writing workshop in collaboration with IJE was held in November 2012, with ten draft profiles submitted for review and seven member HDSSs physically represented. In 2013, seven of these profiles: Ballabgarh (India), Chililab (Vietnam), Dodowa (Ghana), Kaya (Burkina Faso), Manhica (Mozambique), Mbita (Kenya) and Niakhar (Senegal) were published, making a total of 15 since the launch issue. Following the Secretariat's request, the International Journal of Epidemiology (IJE) agreed to make all the published INDEPTH member cohort profiles "open access".

In addition to making the profiles open access, INDEPTH also secured authorization for free group subscription (or free online access to IJE) for all INDEPTH member centres.

List of HDSS Cohort Profiles published (2013) in the IJE:

- Sheru Wanyua, Morris Ndemwa, Kensuke Goto, Junichi Tanaka, James K'Opiyo, Silas Okumu, Paul Diela, Satoshi Kaneko, Mohamed Karama, Yoshio Ichinose, and Masaaki Shimada: Profile: The Mbita Health and Demographic Surveillance System *Int. J. Epidemiol. (2013)* 42 (6): 1678- 1685 doi:10.1093/ije/dyt180
- Margaret Gyapong, Doris Sarpong, Elizabeth Awini, Alfred K Manyeh, Desmond Tei, Gabriel Odonkor, Irene A Agyepong, Precious Mattah, Peter Wontuo, Mary Attaa-Pomaa, John O Gyapong, and Fred N Binka: Profile: The Dodowa HDSS Int. J. Epidemiol. (2013) 42 (6): 1686-1696 doi:10.1093/ije/dyt197
- Charfudin Sacoor, Ariel Nhacolo, Delino Nhalungo, John J Aponte, Quique Bassat, Orvalho Augusto, Inácio Mandomando, Jahit Sacarlal, Natu Lauchande, Betuel Sigaúque, Pedro Alonso, and Eusébio Macete: Profile: Manhiça Health Research Centre (Manhiça HDSS) Int. J. Epidemiol. (2013) 42 (5): 1309-1318 doi:10.1093/ije/dyt148
- Valerie Delaunay, Laetitia Douillot, Aldiouma Diallo, Djibril Dione, Jean-François Trape, Oleg Medianikov, Didier Raoult, and Cheikh Sokhna: Profile: The Niakhar Health and Demographic Surveillance System *Int. J. Epidemiol. (2013) 42 (4): 1002-1011*
- Séni Kouanda, Aristide Bado, Maurice Yaméogo, Juste Nitièma, Gisèle Yaméogo, Fadima Bocoum, Tiéba Millogo, Valery Ridde, Slim Haddad, and Blaise Sondo The Kaya HDSS, Burkina Faso: a platform for epidemiological studies and health programme evaluation *Int. J. Epidemiol.* (2013) 42 (3): 741-749 doi:10.1093/ije/dyt076
- Bich Huu Tran, Ha Thanh Nguyen, Hien Thi Ho, Cuong Viet Pham, Vui Thi Le, and Anh Vu Le The Chi Linh Health and Demographic Surveillance System (CHILILAB HDSS) *Int. J. Epidemiol. (2013) 42 (3): 750-757 doi:10.1093/ije/dyt053*
- Shashi Kant, Puneet Misra, Sanjeev Gupta, Kiran Goswami, Anand Krishnan, Baridalyne Nongkynrih, Sanjay Kumar Rai, Rahul Srivastava, and Chandrakant S Pandav: The Ballabgarh Health and Demographic Surveillance System (CRHSP-AIIMS) *Int. J. Epidemiol. (2013) 42 (3): 758-768 doi:10.1093/ije/dyt055*

Training
workshops
remain a
primary vehicle
through which
specific skills
and improved
methodological
developments
are conveyed
to the wider
membership of
the INDEPTH
network.

3.4.2 Data Management and Harmonization: INDEPTHStats and iSHARE2 Training Workshops

iSHARE2 is a major research data management project, which aims to strengthen cross-site data management by applying best practice methods of harmonisation, and to document and share HDSS data. Among the major accomplishments of the project in 2013 was the first iSHARE2 training workshop held in Pune in January, which was attended by eight centres, followed by the successful launch of the INDEPTH Data Repository on July



FIG. 13: INDEPTH Stats homepage.

1. The launch attracted considerable interest and was the subject of a publication in *Lancet Global Health*. A second iSHARE2 training workshop was held at the Africa Centre, in Mtubatuba, South Africa in October. Six new centres participated, and helped generate a new micro dataset and associated INDEPTHStats indicators. The overall aim of each of these workshops is to prepare iSHARE2 participating member centres to use the Centre-in-the-Box (CiB) research data management appliance to extract, assure the quality of, document, share and analyze the INDEPTH Core Micro Dataset.

One of the landmark events of the period was the public launch of INDEPTHStats on 1st July 2013. Associated with this important event was intensified internal and external review of the data and key indicators computed thereof. The internal review of the indicators computed as well as plausibility checks prior to the launch enabled us to identify

bugs in the scripts developed for computation, and also gave the opportunity for participating centers to identify some issues in their respective data. On July 1st, the link to the online indicators went life with data for the following pioneer centers included: Africa Centre, Agincourt (South Africa), Chakaria and Matlab (Bangladesh), Chililab (Vietnam), Dodowa, Kintampo, and Navrongo (Ghana), Farafenni (Gambia), Kilifi, Kisumu and Nairobi (Kenya), Magu and Rufiji (Tanzania), Manhica (Mozambique), Niakhar (Senegal), Ouagadougou (Burkina Faso), and Vadu (India).

3.5 Small Grants Programme

The goal of the INDEPTH Small Grants programme is to support research capacity strengthening among INDEPTH member centres. In 2013 the project focused on strengthening the capacity of researchers in three East African HDSSs (Ifakara, Kilifi and Nairobi) in the preparation of policy briefs through a training workshop. The four-day training for 16 representatives from the three HDSSs was held at in Nairobi in June.

3.6 Survey on Capacity Strengthening and Training at INDEPTH Member Centres

A survey was conducted with centre leaders on capacity strengthening and training priorities at member centres. The results of the survey were compiled, presented to and discussed by the Board in March 2013. Among the key areas of need identified were the following: longitudinal data management and data analysis methods; data verification methods and data quality control; scientific writing and publications; routine report production and proposal development; young scientists' training on research design and methodology; and long term training (Masters and PhD). See Figure 14.

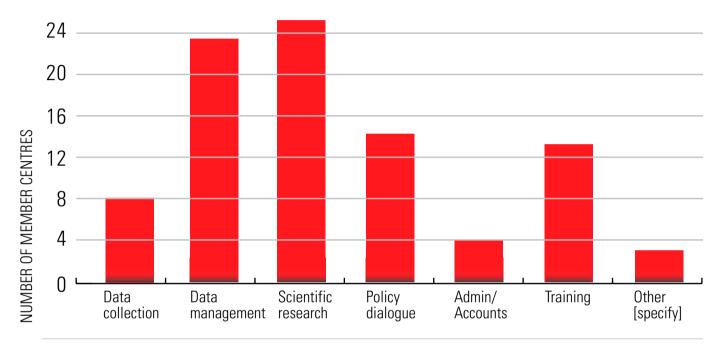


FIG. 14: Results of survey showing broad areas of capacity strengthening needs.

4. SUPPORTING DATA MANAGEMENT AND SHARING

Two major initiatives were undertaken during 2013 to promote improved data management and sharing of data.

4.1 iSHARE 2

The iSHARE2 project is the research data management component of the Wellcome Trust Strategic Award titled "Informing global efforts to improve the health and wellbeing of low and middle-income populations: The INDEPTH Network of Health and Demographic Surveillance Systems," awarded in March 2012. The major accomplishment of the project during the reporting period was the successful launch of the INDEPTH Data Repository on July 1, 2013.

From the time of the launch (July 1) up to October 27, 2013 the six HDSS datasets on the repository had been downloaded 177 times (for an average of 30 downloads per dataset or 44 downloads per month) and the documentation had been accessed 19816 times (for an average of 3302 viewers per dataset or 4,954 viewers per month).

4.2 OpenHDS

Most HDSS centres use the Household Registration system (HRS2) to collect data from the field. This is a paper-based data collection system. The OpenHDS, on the other hand, is an electronic data collection system where data is collected in the field using a tablet. The system has built in checks that ensure elimination of errors. Data can then be uploaded directly from the tablet to data servers at the HDSS centres. The system is much cheaper to run than the HRS2.

With support from the Swiss TPH Team and the Secretariat to Ifakara HDSS, it was possible to migrate the Ifakara database onto the new platform in 2013. Plans have been made to continue to develop the software and documentation to aid the process of migrating all HDSS centres onto the OpenHDS.

The Policy Engagement and Communications Section used various tools in 2013 to project and promote INDEPTH Network as a relevant, reputable organisation that consistently provides health and demographic data to guide the setting of health priorities, policies and programmes. In addition, two INDEPTH communication officers, Ms. Baaba Johnson and Ms. Becky Kwei, visited the African Population and Health Research Centre (APHRC) in Nairobi, Kenya in April 2013, to see and learn what work has been done in the area of policy dialogue and engagement by the Policy Engagement and Communication (PEC) Division of the APHRC.

5. POLICY ENGAGEMENT AND COMMUNICATIONS

Some of the activities undertaken by the section are outlined below.

5.1 Media Relations

The section made significant strides in terms of strengthening media relations by ensuring extensive media coverage for programmes organised by the secretariat. For instance, the launch of INDEPTHStats and INDEPTH Data Repository on July 1 received extensive media coverage. Furthermore, the section worked with the African Media and Malaria Research Network (AMMREN) to produce a special edition of "Eyes on Malaria" magazine. The special edition was published to disseminate information on a paper titled, "The contribution of the INDEPTH Network to Malaria: A synthesis of Research Evidence Published from 1998 to 2009". The magazine was published and distributed during the ISC 2013 in South Africa.

A number of publications were produced in the course of the year. These included a factsheet booklet of member centres, a quarterly newsletter, and a flyer for the INDEPTH Scientific and Leadership programme. Site profiles of member centres were printed and displayed at ISC 2013 in South Africa. In addition, a documentary on the activities of INDEPTH is being produced. Plentiful footage has been gathered for the documentary, and the final product is expected in 2014.

5.2 External Engagement

In the course of 2013, several staff members at the INDEPTH Secretariat travelled to different places and countries on official missions. Such trips provided the exclusive opportunities to share the Network's experiences, mission, vision, achievements and challenges with the different audiences and normally served the purpose of strategically building and strengthening collaborations with key partners around the world. Among the major missions undertaken during 2013 are:

Oslo, Norway (23-26 January): Ms. Samuelina S Arthur, Research Fellow at the INDEPTH Secretariat attended the 7th Annual Research Conference on Population, Reproductive Health and Family Planning held in Oslo-Norway. She presented a poster titled "The contribution of the INDEPTH HDSS platform to understanding sexual and reproductive health and wellbeing in low -and middle –income countries: The experiences of the 5 HDSSs".

Geneva, Switzerland (13-14 February): Prof. Osman Sankoh, INDEPTH Executive Director attended the WHO expert meeting on Global Health Estimates. The meeting took stock of existing approaches in the field



Samuelina (right) with other poster presenters from Ethiopia and Norway.

of Global Health estimation and advised WHO on strengths and limitations. The expert meeting also discussed ways in which current estimation practices could be improved, including data sharing, methods and tools development and sharing, and country capacity strengthening.

Ouagadougou, Burkina Faso (3-5 July): Dr. Martin Bangha, INDEPTH Capacity Strengthening and Training Manager participated at the seminar for dissemination of the preliminary results of the Ouagadougou Urban HDSS in Burkina Faso. At this meeting Martin presented the newly launched INDEPTHStats web-based indicators and the INDEPTH Data Repository.

Basel, Switzerland (19-22 August): Prof. Osman Sankoh, Executive Director of INDEPTH attended a symposium organised by International Society for Environmental Epidemiology (ISEE). Among other things, the symposium reviewed the current state knowledge of the effects of weather on mortality in low- and middle-income countries in Africa and Asia. It was also an opportunity to highlight and discuss similarities and differences in the mortality weather relationship to the more frequent studied Organisation for Economic Co-operation and Development (OECD) countries.

Lisbon, Portugal (3-4 September): Prof. Osman Sankoh participated at the European & Developing Countries Clinical Trials Partnership (EDCTP) Stakeholder Meeting on HIV. This meeting was part of the preparations for the second programme of EDCTP2. The two-day event was attended by 74 participants, including researchers, representatives of product development partnerships and the pharmaceutical industry, policy makers, funding agencies and other likeminded organisations. INDEPTH funded Mr Tom Lutalo from Rakai HDSS, Uganda to attend the meeting.

Annecy, France (9-10 October): The INDEPTH Executive Director attended a conference organised by the European Commission's Directorate for Research and Innovation on Global Research Collaboration for Infectious Disease Preparedness'. In cooperation with the Institute of Microbiology and Infectious Diseases (IMI) of the French National Alliance for Life Sciences and Health (AVIESAN) and the Fondation Mérieux, discussed how to best work together as a coordinated international multi-funder consortium with the goal of providing a quick research response in the case of emerging epidemics and to develop a short-, medium- and long-term research agenda to generate analysis to inform infectious disease preparedness, including addressing novel methodological issues. Osman's presentation titled: *INDEPTH Network – Promoting Global Research Collaboration from the Global South*.

Ouagadougou, Burkina Faso (18-21 November): Dr. Martin Bangha, Capacity Strengthening and Training Manager participated at the Institut Supérieur des Sciences de la Population (ISSP) organised Symposium on *Training and Research in Population and Health in French Speaking Africa: Current Situation, Challenges and Opportunities.* At this symposium the Martin gave a presentation on INDEPTH's capacity strengthening and training efforts with particular attention to





[FROM TOP] Dr. Martin Bangha making a presentation on INDEPTH at the Ouagadougou seminar; At the INSEE symposium in Basel: Osman Sankoh (right) with colleagues Joacim Rocklov (Umea University, Sweden) and Sari Kovats (LSHTM, UK).

INDEPTHStats and the INDEPTH Data Repository as major resources for training and research in Africa.

Geneva, Switzerland (8-9 December): The INDEPTH Executive Director of INDEPTH attended the Global Health Statistics Reference Group meeting organised by WHO. Currently, country use of global health estimates for resource allocation and policy making is limited in most countries. WHO has an important role to bridge the gap between global and regional analytical work and countries to enhance evidence-based decision-making. The WHO Reference Group on Global Health Statistics (RGHS) provides advice on population-health related statistics of relevance to WHO with particular focus on mortality and causes of death.

New York, USA (12-13 December): Dr. Martin Bangha, the Capacity Strengthening and Training Manager participated at the Global Every Newborn Stakeholders Consultation Meeting convened by UNICEF and WHO. Through a consultative process, the Every Newborn effort aimed to develop an action plan to take forward the Global Strategy for Women's and Children's Health by focusing specific attention on newborn health and identifying actions for improving the linkages between reproductive, maternal and child health. The consultation meeting aimed among other things to stimulate global dialogue to promote coordinated stakeholder efforts to support the scale-up of evidence-based interventions to address preventable newborn deaths.

Addis Ababa, Ethiopia (12-15 December): The third international conference on family planning (icfp 2013) organized around the theme "full access, full choice which was held in Addis Ababa, Ethiopia (12-15 December) was attended by Prof. Jacques Emina, the Programme Manager for Scientific Research and Co-ordination and Ms. Samuelina S Arthur, Research Fellow attended the International Conference on Family Planning. At this meeting, the INDEPTH team met with the EVIDENCE (a project on Family Planning which is being funded by USAID) partners (USAID, PopCouncil US & Ghana) to discuss the project and it implementation. The INDEPTH team also had side meetings with the HDSSs scientist who attended this meeting.



Prof. Jacques Emina at the icfp 2013 meeting in Addis Ababa, Ethiopia.

6. ADMINISTRATION

The following are the key administrative developments for INDEPTH in 2013.

6.1 Board Members, 2013

The new Board of Trustees was constituted at the AGM after an election on October 30, 2013. A chair, elected from among the members, leads the board. The board now consists of 11 members: six elected members representing the member centres of the network; three members appointed by the elected members; the executive director as ex-officio member and the chair of the Scientific Advisory Committee who is a co-opted member.

The new board members are:

	Prof. Marcel Tanner, Chair, Director	Swiss TPH	Switzerland
	Dr. Eusebio Macete, Vice Chair, Centre Leader	Manhica HDSS	Mozambique
A	Dr. Catherine Kyobutungi, Member	Nairobi HDSS	Kenya
9	Dr. Abdramane Soura, Centre Leader	Ouagadougou HDSS	Burkina Faso
9	Prof. Tran Huu Bich, Member, Centre Leader	Chililab HDSS	Vietnam
	Dr. Frank Odhiambo, Member, Centre Leader	Kisumu HDSS	Kenya
1	Dr. Momodou Jasseh, Member, Centre Leader	Farafenni HDSS	Gambia
	Prof. Hans-Olov Adami, Member	Harvard School of Public Health	USA
	Dr. Timothy Evans, Member	The World Bank	USA
RA	Prof. Peter Byass, Member, Chair SAC	UCGHR	Sweden
	Prof. Osman Sankoh, Member, Executive Director	INDEPTH Network	Ghana
	Dr. Kofi Baku, Board Secretary	University of Ghana	Ghana

6.2 Scientific Advisory Committee, 2013

The Scientific Advisory Committee (SAC) assists in maintaining the focus of INDEPTH on health, population and social issues and areas of greatest potential impact; encourages linkages between INDEPTH and related agencies, research bodies and networks; and helps maintain the highest scientific standard for INDEPTH studies. Members of the SAC are selected on their personal merits. They represent diverse constituencies including NGOs, academic institutions pharmaceutical and clinical research organizations, etc.

Current members of the SAC are:

40

1	Prof. Peter Byass	Umeå University, Sweden
	Prof. Don de-Savigny	Swiss Tropical and Public Institute, Switzerland
	Prof. David Ross	London School of Hygiene & Tropical Medicine, UK
	Dr. Halima A Mwenesi	African Leaders Malaria Alliance (ALMA), Kenya
•	Prof. Samuel Clark	University of Washington, USA
	Dr. Cheikh Mbacke	Consultant, Senegal
	Prof. Anastasia Gage	Tulane University SPHTM Department of International Health and Development, USA
	Dr. Ime Asangasi	University of Oslo, Norway & Health Information Systems Programme, Norway/Nigeria
	Mr. Davidson Gwatkin	Results for Development Institute, Washington,
	Prof. Philippe Bocquier	Université Catholique de Louvain SSH/IACS, Belgium
9	Carla Abouzahr	Consultant, Australia
(a)	Prof. Alan Lopez	School of Population Health , The University of Queensland, Australia

6.3 New and Prospective Members

The latest addition to the INDEPTH Network was the Birbhum HDSS in India, which joined in 2013. Birbhum is one of the 19 districts in West Bengal and is primarily a rural district. INDEPTH now has 42 member centres operating 49 HDSS.

One of INDEPTH's outstanding commitments is to strengthen the technical and research capacities and skills of established member centres that run HDSS centres as well as support the establishment of new HDSS centres in low- and middle-income countries, thereby preparing them to make effective scientific contributions to INDEPTH when they become fully integrated members of the Network. In keeping with this commitment, INDEPTH has been providing technical support to three HDSS centres in Nigeria (Nahuche HDSS in Bungudu Local Government Area, Cross-River HDSS in Akpabuyo Local Government Area, and Oriade HDSS in Oyo State). Recently Nahuche HDSS was approved for full membership by the INDEPTH Board. We expect the two other HDSS centres to become members of the Network in the near future. Prof. Martin Meremikwu, leader of the Cross River HDSS which is operated by the University of Calabar in Nigeria, and which has benefited immensely from the technical expertise of INDEPTH scientists, particularly from the Navrongo HDSS, visited the INDEPTH Secretariat in 2013 to present an update on CRHDSS work. He informed the Secretariat that the primary objective of the CRHDSS is to generate reliable data on vital events, especially child health, reproductive health and the control of endemic infectious diseases, notably malaria, HIV/AIDS and tuberculosis.

6.4 INDEPTH Centre Leaders, 2013

INDEPTH membership is given to institutions that run health and demographic surveillance systems (HDSSs). These are the parent institutions which we refer to as member centres of INDEPTH. A director of such a centre or his/her designee is referred to by INDEPTH as a centre leader. However, some centres have two or more HDSS field sites. Each of these HDSSs may have heads (field station managers, for example). INDEPTH considers these heads of field sites as Site Leaders. ALL centre/site leaders receive communications from the Secretariat.

Site Lea	ader	Name	Country
9	Dr. Abraham J. Herbst	ACDIS HDSS	South Africa
1	Prof. Steve Tollman	Agincourt HDSS	South Africa
	Prof. Shashi Kant	Ballabgarh HDSS	India
	Dr. Valerie Delaunay	Bandafassi HDSS	Senegal
9	Dr. Wasif Khan	Bandarban HDSS	Bangladesh
	Prof. Peter Aaby	Bandim HDSS	Guinea Bissau

	Dr. Miteke Molla	Butajira HDSS	Ethiopia
	Dr. Abbas Bhuiya	Chakaria HDSS	Bangladesh
	Prof. Tran Huu Bich	Chililab HDSS	Vietnam
	Prof. Yigzaw Kebede	Dabat HDSS	Ethiopia
9	Prof. Marriane Alberts	Dikgale HDSS	South Africa
The state of the s	Dr. Tran Khan	Dodalab HDSS	Vietnam
	Prof. Margaret Gyapong	Dodowa HDSS	Ghana
8	Dr. Momodou Jasseh	Farafenni HDSS	Gambia
8	Prof. Nguyen T. K. Chuc	Filabavi HDSS	Vietnam
	Prof. Fasil Tessema	Gilgel Gibe HDSS	Ethiopia
	Dr. Salim Abdullah	Ifakara HDSS	Tanzania
E	Prof. David Gawutudde	lganga/Mayuge HDSS	Uganda
₹:	Prof. Sureeporn Punpuing	Kanchanaburi HDSS	Thailand
	Ms. Mia Crampin	Karonga HDSS	Malawi
	Prof. Seni Kounada	Kaya HDSS	Burkina Faso
	Dr. Nega Assefa	Kersa HDSS	Ethiopia
P	Prof. Thomas Williams	Kilifi HDSS	Kenya

9	Mr. Yohannes Adama	Kilite Awlaelo HDSS	Ethiopia
	Dr. Seth Owusu-Agyei	Kintampo HDSS	Ghana
	Dr. Frank Odhiambo	Kisumu HDSS	Kenya
9	Dr. Walter Otieno	Kombewa HDSS	Kenya
	Mr. Mark Urassa	Magu HDSS	Tanzania
	Dr. Eusebio Macete	Manhica HDSS	Mozambique
	Dr. Kim Streatfield	Matlab HDSS	Bangladesh
	Prof. Masaaki Shimada	МВІТА	Kenya
	Dr. Valerie Delaunay	Mlomp HDSS	Senegal
•	Mr. Alabi Oluyomi Olatunji	Nahuche HDSS	Nigeria
9	Dr. Alex Chika Ezeh	Nairobi HDSS	Kenya
9	Prof. Halidou Tinto	Nanoro HDSS	Burkina Fasso
	Dr. Abraham Oduro	Navrongo HDSS	Ghana
	Dr. Ali Sie	Nouna HDSS	Burkina Faso
0	Dr. Abdramane Soura	Ouagadougou HDSS	Burkina Faso
9	Dr.Suparat Phuanukoonnon	PiH HDSS	Papua New Guinea
9	Prof. Siswanto Wilopo	Purworejo HDSS	Indonesia

9	Prof. Nelson Sewankambo	Rakai HDSS	Uganda
	Dr. Honorati Masanja	Rufiji HDSS	Tanzania
	Dr. Sodiomom Sirima	Sapone HDSS	Burkina Faso
6	Prof. Bassirou Bonfoh	Taabo HDSS	Côte d'Ivoire
E	Dr. Sanjay Juvekar	Vadu HDSS	India
	Mr. Bakary Sonko	West Kiang HDSS	Gambia
	Dr. Suparat Phuanukoonnon	Wosera	Papua New Guinea

6.5 Secretariat Staff, 2013

INDEPTH has a permanent Secretariat which is based in Accra, Ghana. There are satellite INDEPTH Secretariats at the University of the Witwatersrand in Johannesburg, South Africa; Mtubatuba, South Africa; Pune, India; and Nairobi, Kenya.

Core Staff

	Prof. Osman A. Sankoh	Executive Director	Sierra Leonean
9	Dr. Martin Bangha	Capacity Strengthening and Training Manager	Cameroonian
*	Prof. Jacques Emina	Science Programme Manager	Congolese
1	Prof. Steve Tollman	Principal Scientist	South African
0	Sixtus Apaliyah	Senior Finance Manager	Ghanaian
0	Titus Tei	General Projects & Information Systems Manager	Ghanaian
	Felicia Manu	Grants Manager	Ghanaian

9	Margaret Bugase	Administrative Manager	Ghanaian
9	Adam Osman	Senior Accountant	Ghanaian
	Francis A. Ameni	Information & Communications Technology Officer	Ghanaian
	Samuelina Siipara Arthur	Research Fellow	Ghanaian
9	Baaba Johnson	Communications Officer	Ghanaian
	Gloria Kessie	Finance Officer	Ghanaian
1	Caroline Tekyi-Mensah	Senior Executive Assistant	Ghanaian
9	Beatrice Afari Yeboah	Capacity Strengthening and Training Assistant	Ghanaian
8	Peter Asiedu	Administrative Officer (Logistics)	Ghanaian
1	Berlinda Azanu	Administrative Assistant (Grants and Ticketing)	Ghanaian

The INDEPTH Effectiveness and Safety Studies of Anti-malarial Drugs in Africa (INESS)

	Prof. Fred Binka	Principal Investigator	Ghanaian
9	Dr. Bernhards Ogutu	Senior Clinical Trialist	Kenyan
8	Dr. Rita Baiden	ClinicalTrialist	Ghanaian
	Martin Adjuik	Statistician	Ghanaian
	Raymond Akparibo	Accountant	Ghanaian

6.5 Recognition and Awards

Prof. Osman Sankoh, the INDEPTH Executive Director was honoured in 2013 by the Faculty of Health Sciences of the University of the Witwatersrand in Johannesburg, South Africa for his contribution to research. The Faculty presented the award to Osman during the INDEPTH Scientific Conference hosted by Wits University in October 2013.

INDEPTH usually recognises the contributions of Board and SAC members. At the ISC 2013 in Johannesburg, the following individuals were awarded for their outstanding contribution to INDEPTH during a dinner at Constitution Hill. They are:



Prof. Osman Sankoh, INDEPTH Executive Director

	Prof. Margaret Gyapong	As a member of the Board of Trustees
	Dr. Ali Sie	As a member of the Board of Trustees
1	Dr. Sanjay Juvekar	As Vice Chair of the Board of Trustees
	Prof. Kathleen Kahn	As a member of the Board of Trustees
	Dr. Honorati Masanja	As a member of the Board of Trustees
	Dr. Rosalia Sciortino	As a member of SAC

7. FINANCIAL ISSUES

7.1 Grants Administration

Support to the Secretariat for INDEPTH activities came from different sources and was used for many different activities. Some notable sources in 2013 were Sida, NIH/Wits, Save the Children, UNESCO, MRC (South Africa), Ministry of Health of Ghana, Population Council, Rockefeller Foundation, Wellcome Trust and ICF Macro International. Funds supported general operations of the Secretariat as well as ongoing projects.

7.2 Audited Financial Report 2013

FINANCIAL STATEMENTS 31 DECEMBER 2013, INDEPTH NETWORK

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TO THE MEMBERS OF INDEPTH NETWORK

The Trustees present their report and financial statements of INDEPTH Network for the year ended 31 December 2013.

TRUSTEES' RESPONSIBILITY FOR THE FINANCIAL STATEMENTS

The company's Board of Trustees is responsible for the preparation and fair presentation of these financial statements comprising the statement of financial position at 31 December 2013, the statement of financial performance, the statement of changes in net asset and the statement of cash flow for the year then ended, and the note to the financial statements, which include a summary of significant accounting policies and other explanatory notes in accordance with International Public Sector Accounting Standards (IPSAS) and in the manner required by the Companies Act 1963, (Act 179) and for such internal control as the board determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

The Trustees have made an assessment of the ability of the Network secretariat to continue as a going concern and have no reason to believe the organisation will not be a going concern in the year ahead.

INCORPORATION AND PRINCIPAL ACTIVITIES

INDEPTH Network is an international organisation for the demographic evaluation of populations and their health in developing countries. It is a not-for-profit organisation that currently consists of 43 member centres running 49 Health and Demographic Surveillance System (HDSS) in Africa, Asia and Oceania. It was established in 1998 and incorporated in Ghana as a company limited by guarantee in 2002 under the Companies Act, 1963 (Act 179).

The main activities of the Organisation are to conduct longitudinal health and demographic evaluation of populations in low and middle income countries, strengthen global capacity for Health and Demographic Surveillance System (HDSS), co-ordinate and mount cross-national research, and disseminate health information based on up-to-date scientific evidence from different health research centres across the developing world.

APPROVAL OF THE FINANCIAL STATEMENTS

TRUSTEE

TRUSTEE



TO THE MEMBERS OF INDEPTH NETWORK

Report on the Financial Statements

We have audited the financial statements of INDEPTH Network which comprise the statements of financial position at 31 December 2013, the statement of financial performance, statement of changes in net assets and cash flow for the year then ended, and the notes to the financial statements which include a summary of significant accounting policies and other explanatory notes as set out on pages 6 to 23.

Trustees' Responsibilities for the Financial Statements

The Trustees are responsible for the preparation and fair presentation of these financial statements in accordance with International Public Sector Accounting Standards, and in the manner required by the Companies Act 1963, (Act 179) and for such internal control as the Trustees determine is necessary to enable the preparation of financial statements that are free from material misstatements, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with International Standards on Auditing. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments; the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements give a true and fair view of the statement of financial position of INDEPTH Network Secretariat at 31December 2013, statement of financial performance, statements of changes in net assets and cash flows for the year ended in accordance with International Public Sector Accounting Standards and the Companies Act 1963, (Act 179).



INDEPENDENT AUDITOR'S REPORT TO THE MEMBERS OF INDEPTH NETWORK (CONT'D)

Report on Other Legal and Regulatory Requirements

Compliance with the requirements of Section 133 and fifth Schedule of the Companies Act 1963, (Act 179)

We have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purpose of our audit.

In our opinion, proper books of account have been kept and the statement of financial position and statement of financial performance are in agreement with the books of accounts.

KPmo

Signed by: Nathaniel D. Harlley (ICAG/P/1056)

For and on behalf of:

KPMG: (ICAG/F/2014/038) CHARTERED ACCOUNTANTS 13 YIYIWA DRIVE, ABELENKPE

PO BOX GP 242

ACCRA

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INDEPTH NETWORK

(A Company Limited by Guarantee)

STATEMENT OF FINANCIAL POSITION AS AT 31 DECEMBER 2013

	Note	2013 USS	Restated 2012 USS
ASSETS	note.	033	.0.53
Non-current assets			
Property, plant and equipment	16	86,378	104,157
Current assets			
Cash and cash equivalents	17	8,573,481	13,700,335
Receivables from non-exchange transactions	18	1,571,045	1,418,090
Receivables from exchange transactions	19	17,472	40,224
Prepayment	20	16,936	60,135
Total current assets		10,178,934	15,218,784
Total assets		10,265,312	15,322,941
LIABILITIES			
Current liabilities			
Accrued expenses and payables	21	100,800	248,251
Committed grants deferred	29	7,777,907	10,963,995
Total liabilities		7,878,707	11,212,246
Net assets		2,386,605	4,110,695
Financed by:			
Endowment fund	22	1,375,567	-
Accumulated Surplus		1,011,038	4,110,695
		2,386,605	4,110,695

TRUSTEE

TRUSTEE

INDEPTH NETWORK

(A Company Limited by Guarantee)

STATEMENT OF FINANCIAL PERFORMANCE AT 31 DECEMBER 2013

	Note	2013 USS	Restated 2012 USS
Revenue			
Funds received from donors			
Secretariat-core activities	5	1,374,925	2,757,032
Programmes	6	4,372,107	4,279,437
Sub-total		5.747.032	7.036,469
Other revenue	7	361,646	73,696

Total revenue		6,108,678	7,110,165
Governance meeting expenses	8	157,679	164,374
Scientific workshop and coordination expense	9	3,713,403	2,781,242
Capacity strengthening workshop expenses	10	470,769	434,347
Annual general and scientific meetings	11	271,374	178,935
Sub grants to member centres	12	2,397,054	2,801,667
General secretariat running costs	13	774,919	653,341
W		7.705.100	7.012.006
Total expenditure		7,785,198	7,013,906
(Deficit)/surplus before financial income and exp	ense	(1,676,520)	96,259
Financial income	14	22,102	36,797
Financial expense	15	(69,672)	(69,494)
Net financial expense		(47,570)	(32,697)

INDEPTH NETWORK

(A Company Limited by Guarantee)

STATEMENT OF CASH FLOWS

FOR THE YEAR ENDED 31 DECEMBER 2013

	Note	2013 USS	Restated 2012 USS
(Deficit)/surplus for the year		(1,724,090)	63,562
Depreciation for the year		39,481	32,293
Interest income		(22,102)	(36,797)
(Increase)/decrease in receivables from non-exchange transactions		(152,955)	64,625
Decrease/(increase) in receivables from		542 March 1967 March 1967	04,023
exchange transactions		22,752	(8,924)
Decrease/(increase) in prepayments		43,199	(33,295)
Decrease in payables		(147,451)	(71,984)
Change in net deferred grants		(3,186,088)	6,533,061
Loss on disposal of plant and equipment		12,552	-
Net cash flow from operating activities		(5,114,702)	6,542,541
Cash flows used in investing activities			
Acquisition of property, plant and equipment	16	(41,918)	(8,223)
Proceeds from disposal of plant and equipment		7,664	72
Interest received		22,102	36,797
Net cash (used in)/generated from investing			
activities		(12,152)	28,574
Net (decrease)/increase in cash and cash			
equivalents		(5,126,854)	6,571,115
Movement in cash and cash equivalents			
Cash and cash equivalents at beginning of the year		13,700,335	7,129,220

2013 INDEPTH PUBLICATIONS

- Aitken, Susan C et al. "Development and Evaluation of an Affordable Real-Time Qualitative Assay for Determining HIV-1 Virological Failure in Plasma and Dried Blood Spots." Journal of Clinical Microbiology 51.6 (2013): 1899–1905. NCBI PubMed. Web.
- Bärnighausen, Till et al. "Valuing the Broader Benefits of Dengue Vaccination, with a Preliminary Application to Brazil." Seminars in Immunology 25.2 (2013): 104–113. ScienceDirect. Web. 20 Jan. 2014.
- Bland, R. M., J. Ndirangu, and M.-L. Newell. "Maximising Opportunities for Increased Antiretroviral Treatment in Children in an Existing HIV Programme in Rural South Africa." BMJ 346.feb27 1 (2013): f550. NCBI PubMed. Web. 6.Jan. 2014.
- Bor, Jacob et al. "Increases in Adult Life Expectancy in Rural South Africa: Valuing the Scale-up of HIV Treatment." Science (New York, N.Y.) 339.6122 (2013): 961–965. NCBI PubMed. Web.
- Bork, Kirsten et al. "Infant Feeding Modes and Determinants among HIV-1-Infected African Women in the Kesho Bora Study." Journal of acquired immune deficiency syndromes (1999) 62.1 (2013): 109–118. NCBI PubMed. Web.
- Camlin, Carol S., Rachel C. Snow, and Victoria Hosegood. "Gendered Patterns of Migration in Rural South Africa." Population, Space and Place (2013): n/a-n/a. Wiley Online Library. Web. 6 Jan. 2014.
- Castro, Hannah et al. "Persistence of HIV-1 Transmitted Drug Resistance Mutations." The Journal of Infectious Diseases 208.9 (2013): 1459–1463. NCBI PubMed. Web.
- 8. Chevenet, François et al. "Searching for Virus Phylotypes."

 Bioinformatics (Oxford, England) 29.5 (2013): 561–570. NCBI
 PubMed. Web.
- Chimbindi, N Z, T Bärnighausen, and M-L Newell. "An Integrated Approach to Improving the Availability and Utilisation of Tuberculosis Healthcare in Rural South Africa." South African medical journal = Suid-Afrikaanse tydskrif vir geneeskunde 103.4 (2013): 237–240. Print.
- Cleary, Susan et al. "Investigating the Affordability of Key Health Services in South Africa." Social science & medicine (1982) 80 (2013): 37–46. NCBI PubMed. Web.
- Cobb, G, and R M Bland. "Nutritional Supplementation: The Additional Costs of Managing Children Infected with HIV in Resource-Constrained Settings." Tropical medicine & international health: TM & IH 18.1 (2013): 45–52. NCBI PubMed. Web.
- Cournil, Amandine et al. "Relationship between Mortality and Feeding Modality among Children Born to HIV-Infected Mothers in a Research Setting: The Kesho Bora Study." AIDS (London, England) 27.10 (2013): 1621–1630. NCBI PubMed. Web.
- Craig, Eva, Ruth Bland, and John Reilly. "Objectively Measured Physical Activity Levels of Children and Adolescents in Rural South Africa: High Volume of Physical Activity at Low Intensity." Applied physiology, nutrition, and metabolism = Physiologie appliquée, nutrition et métabolisme 38.1 (2013): 81–84. NCBI PubMed. Web.
- Craig, Eva, John Reilly, and Ruth Bland. "Body Fatness or Anthropometry for Assessment of Unhealthy Weight Status? Comparison between Methods in South African

- Children and Adolescents." Public health nutrition 16.11 (2013): 2005–2013. NCBI PubMed. Web.
- Craven, Marilyn A, and Roger Bland. "Depression in Primary Care: Current and Future Challenges." Canadian journal of psychiatry. Revue canadienne de psychiatrie 58.8 (2013): 442–448. Print.
- 16. Ettenger, Allison, Till Bärnighausen, and Arachu Castro. "Health Insurance for the Poor Decreases Access to HIV Testing in Antenatal Care: Evidence of an Unintended Effect of Health Insurance Reform in Colombia." Health policy and planning (2013): n. pag. NCBI PubMed. Web.
- Gafos, Mitzy et al. "How Effective Is Effective Enough? Opinions of Potential End-Users of Microbicides from a Rural South African Community." AIDS care 25.5 (2013): 573–578. NCBI PubMed. Web.
- 18. Harling, Guy et al. "Socioeconomic Disparities in Sexually Transmitted Infections among Young Adults in the United States: Examining the Interaction between Income and Race/ethnicity." Sexually transmitted diseases 40.7 (2013): 575–581. NCBI PubMed. Web.
- Hoffmann, Christopher J et al. "CD4 Count Slope and Mortality in HIV-Infected Patients on Antiretroviral Therapy: Multicohort Analysis from South Africa." Journal of acquired immune deficiency syndromes (1999) 63.1 (2013): 34–41. NCBI PubMed. Web.
- Hontelez, Jan A C et al. "Elimination of HIV in South Africa through Expanded Access to Antiretroviral Therapy: A Model Comparison Study." PLoS Medicine 10.10 (2013): e1001534. NCBI PubMed. Web.
- Hosegood, Victoria. "Women, Marriage and Domestic Arrangements in Rural KwaZulu-Natal, South Africa." Acta Juridica (2013): 143–168. Print.
- Huntington, Susie E et al. "Predictors of Pregnancy and Changes in Pregnancy Incidence among HIV-Positive Women Accessing HIV Clinical Care." AIDS (London, England) 27.1 (2013): 95–103. NCBI PubMed. Web.
- Imrie, John et al. "Why MSM in Rural South African Communities Should Be an HIV Prevention Research Priority." AIDS and Behavior 17 Suppl 1 (2013): S70–76. NCBI PubMed. Web.
- 24. Iwuji, C.C. et al. "Evaluation of the Impact of Immediate versus WHO Recommendations-Guided Antiretroviral Therapy Initiation on HIV Incidence: The ANRS 12249 TasP (treatment as Prevention) Trial in Hlabisa Sub-District, KwaZulu-Natal, South Africa: Study Protocol for a Cluster Randomised Controlled Trial." Trials 14.230 (2013): 1–15. NCBI PubMed. Web. 7 July 2014.
- lwuji, Collins C et al. "Older HIV-Infected Individuals Present Late and Have a Higher Mortality: Brighton, UK Cohort Study." BMC Public Health 13 (2013): 397. NCBI PubMed. Web.
- Johnson, Leigh F et al. "Life Expectancies of South African Adults Starting Antiretroviral Treatment: Collaborative Analysis of Cohort Studies." PLoS Medicine 10.4 (2013): e1001418. NCBI PubMed. Web.
- Klein, Nigel et al. "The Immunological and Virological Consequences of Planned Treatment Interruptions in Children with HIV Infection." PLoS ONE 8.10 (2013): e76582. NCBI PubMed. Web.

- Knight, Lucia, Victoria Hosegood, and Ian M. Timæus. "The South African Disability Grant: Influence on HIV Treatment Outcomes and Household Well-Being in KwaZulu-Natal." Development Southern Africa 30.1 (2013): 135–147. Print.
- Lee, Anne CC et al. "National and Regional Estimates of Term and Preterm Babies Born Small for Gestational Age in 138 Low-Income and Middle-Income Countries in 2010." The Lancet Global Health 1.1 (2013): e26–e36. ScienceDirect. Web. 20 Jan. 2014.
- Lessells, Richard J et al. "Impact of a Novel Molecular TB Diagnostic System in Patients at High Risk of TB Mortality in Rural South Africa (Uchwepheshe): Study Protocol for a Cluster Randomised Trial." Trials 14 (2013): 170. NCBI PubMed. Web.
- Lewycka, Sonia et al. "Effect of Women's Groups and Volunteer Peer Counselling on Rates of Mortality, Morbidity, and Health Behaviours in Mothers and Children in Rural Malawi (MaiMwana): A Factorial, Cluster-Randomised Controlled Trial." Lancet 381.9879 (2013): 1721–1735. NCBI PubMed. Web.
- Malaza, Abraham et al. "Population-Based CD4 Counts in a Rural Area in South Africa with High HIV Prevalence and High Antiretroviral Treatment Coverage." PLoS ONE 8.7 (2013): e70126. PLoS Journals. Web. 6 Jan. 2014.
- Manasa, Justen et al. "High-Levels of Acquired Drug Resistance in Adult Patients Failing First-Line Antiretroviral Therapy in a Rural HIV Treatment Programme in KwaZulu-Natal, South Africa." PLoS ONE 8.8 (2013): e72152. NCBI PubMed. Web.
- Mangé, Alain et al. "Elevated Concentrations of Milk 2-Microglobulin Are Associated with Increased Risk of Breastfeeding Transmission of HIV-1 (Vertical Transmission Study)." Journal of Proteome Research 12.12 (2013): 5616– 5625. NCBI PubMed. Web.
- Matovu, Joseph K et al. "Trends in HIV Counseling and Testing Uptake among Married Individuals in Rakai, Uganda." BMC Public Health 13.1 (2013): 618. NCBI PubMed. Web.
- 36. McGrath, Nuala et al. "Sexual Behaviour in a Rural High HIV Prevalence South African Community: Time Trends in the Antiretroviral Treatment Era." AIDS (London, England) 27.15 (2013): 2461–2470. NCBI PubMed. Web.
- 37. McGrath, Nuala, Linda Richter, and Marie-Louise Newell. "Sexual Risk after HIV Diagnosis: A Comparison of Pre-ART Individuals with CD4>500 Cells/µI and ART-Eligible Individuals in a HIV Treatment and Care Programme in Rural KwaZulu-Natal, South Africa." Journal of the International AIDS Society 16.1 (2013): 18048. Print.
- Michel, Janet et al. "Collective Patient Behaviours Derailing ART Roll-out in KwaZulu-Natal: Perspectives of Health Care Providers." AIDS Research and Therapy 10.1 (2013): 20. CrossRef. Web. 6 Jan. 2014.
- Mkwanazi, Ntombizodumo et al. "Mothers' and Health Workers' Perceptions of Participation in a Child-Friendly Health Initiative in Rural South Africa." Health 05.12 (2013): 2137–2145. CrossRef. Web. 7 July 2014.
- Moat, Kaelan A et al. "Twelve Myths about Systematic Reviews for Health System Policymaking Rebutted." Journal of health services research & policy 18.1 (2013): 44–50. NCBI PubMed. Web.
- Moon, Sung-Sil et al. "Differential Profiles and Inhibitory Effect on Rotavirus Vaccines of Nonantibody Components in Breast Milk from Mothers in Developing and Developed Countries." The Pediatric infectious disease journal 32.8 (2013): 863–870. NCBI PubMed. Web.

- Mossong, Joel et al. "Modelling HIV Incidence and Survival from Age-Specific Seroprevalence after Antiretroviral Treatment Scale-up in Rural South Africa." AIDS (London, England) 27.15 (2013): 2471–2479. PubMed Central. Web. 20 Jan. 2014.
- Mossong, Joël et al. "Modelling HIV Incidence and Survival from Age-Specific Seroprevalence after Antiretroviral Treatment Scale-up in Rural South Africa." AIDS (London, England) 27.15 (2013): 2471–2479. NCBI PubMed. Web.
- 44. Mutevedzi, Portia C, Richard J Lessells, and Marie-Louise Newell. "Disengagement from Care in a Decentralised Primary Health Care Antiretroviral Treatment Programme: Cohort Study in Rural South Africa." Tropical medicine & international health: TM & IH 18.8 (2013): 934–941. NCBI PubMed. Web.
- Mutevedzi, Portia C. et al. "Decreased Chronic Morbidity but Elevated HIV Associated Cytokine Levels in HIV-Infected Older Adults Receiving HIV Treatment: Benefit of Enhanced Access to Care?" PLoS ONE 8.10 (2013): e77379. NCBI PubMed. Web.
- Nabukalu, Dorean et al. "Mortality in Women of Reproductive Age in Rural South Africa." Global Health Action 6 (2013): 22834. Print.
- Namosha, Elias, Benn Sartorius, and Frank Tanser.
 "Spatial Clustering of All-Cause and HIV-Related Mortality in a Rural South African Population (2000-2006)." PLoS ONE 8.7 (2013): e69279. NCBI PubMed. Web.
- Negin, Joel et al. "Inequality in Health Status among Older Adults in Africa: The Surprising Impact of Anti-Retroviral Treatment." Journal of Cross-Cultural Gerontology 28.4 (2013): 491–493. NCBI PubMed. Web.
- Newell, Marie-Louise, and Madeleine J Bunders. "Safety of Antiretroviral Drugs in Pregnancy and Breastfeeding for Mother and Child." Current opinion in HIV and AIDS 8.5 (2013): 504–510. NCBI PubMed. Web.
- Nozaki, Ikuma et al. "False Beliefs About ART Effectiveness, Side Effects and the Consequences of Non-Retention and Non-Adherence Among ART Patients in Livingstone, Zambia." AIDS and Behavior 17.1 (2013): 122–126. PubMed Central. Web. 20 Jan. 2014.
- Nyirenda, M et al. "Prevalence and Correlates of Depression among HIV-Infected and -Affected Older People in Rural South Africa." Journal of affective disorders 151.1 (2013): 31–38. NCBI PubMed. Web.
- Nyirenda, Makandwe et al. "Health, Wellbeing, and Disability among Older People Infected or Affected by HIV in Uganda and South Africa." Global health action 6 (2013): 19201. Print.
- 53. Ouedraogo, David Eric et al. "Pivotal Role of HIV and EBV Replication in the Long-Term Persistence of Monoclonal Gammopathy in Patients on Antiretroviral Therapy." Blood 122.17 (2013): 3030–3033. bloodjournal.hematologylibrary.org. Web. 20 Jan. 2014.
- 54. Pillay, Timesh D. et al. "Unlocking the Potential: Longitudinal Audit Finds Multifaceted Education for General Practice Increases HIV Testing and Diagnosis." Sexually Transmitted Infections 89.3 (2013): 191–196. NCBI PubMed. Web.
- Price, Huw et al. "Suppression of HBV by Tenofovir in HBV/ HIV Coinfected Patients: A Systematic Review and Meta-Analysis." PLoS ONE 8.7 (2013): e68152. NCBI PubMed. Web.
- 56. Pritchett, Rachel et al. "Risk Factors for Vulnerable Youth in Urban Townships in South Africa: The Potential Contribution of Reactive Attachment Disorder." Vulnerable Children and Youth Studies 8.4 (2013): 310–320. Taylor and Francis+NEJM. Web. 6 Jan. 2014.

- Ramsugit, Saiyur et al. "Pili Contribute to Biofilm Formation in Vitro in Mycobacterium Tuberculosis." Antonie Van Leeuwenhoek 104.5 (2013): 725–735. NCBI PubMed. Web.
- Reynolds, Lindsey et al. "The Social Dynamics of Consent and Refusal in HIV Surveillance in Rural South Africa." Social science & medicine (1982) 77 (2013): 118–125. NCBI PubMed. Web.
- Robyn, Paul Jacob et al. "Does Enrollment Status in Community-Based Insurance Lead to Poorer Quality of Care? Evidence from Burkina Faso." International Journal for Equity in Health 12 (2013): 31. NCBI PubMed. Web.
- Robyn, Paul Jacob, Rainer Sauerborn, and Till Bärnighausen. "Provider Payment in Community-Based Health Insurance Schemes in Developing Countries: A Systematic Review." Health policy and planning 28.2 (2013): 111–122. NCBI PubMed. Web.
- Rochat, Tamsen J et al. "Detection of Antenatal Depression in Rural HIV-Affected Populations with Short and Ultrashort Versions of the Edinburgh Postnatal Depression Scale (EPDS)." Archives of women's mental health 16.5 (2013): 401–410. NCBI PubMed. Web.
- 62. Rochat, Tamsen J, Ntombizodumo Mkwanazi, and Ruth Bland. "Maternal HIV Disclosure to HIV-Uninfected Children in Rural South Africa: A Pilot Study of a Family-Based Intervention." BMC public health 13 (2013): 147. NCBI PubMed. Web.
- Rochat, TJ et al. "Suicide Ideation, Depression and HIV among Pregnant Women in Rural South Africa." Health 5.03 (2013): 650–661. Print.
- 64. Rockers, Peter C, and Till Bärnighausen. "Interventions for Hiring, Retaining and Training District Health Systems Managers in Low- and Middle-Income Countries." The Cochrane database of systematic reviews 4 (2013): CD009035. NCBI PubMed. Web.
- Rosenberg, Nora E. et al. "Assessing the Effect of HIV Counselling and Testing on HIV Acquisition among South African Youth:" AIDS 27.17 (2013): 2765–2773. CrossRef. Web. 6 Jan. 2014.
- Sankoh, Osman et al. "INDEPTH Launches a Data Repository and INDEPTHStats." The Lancet Global Health 1.2 (2013): e69. CrossRef. Web. 12 June 2014.
- 67. Sartorius, Benn K. D. et al. "Maternal Anaemia and Duration of Zidovudine in Antiretroviral Regimens for Preventing Mother-to-Child Transmission: A Randomized Trial in Three African Countries." BMC Infectious Diseases 13 (2013): 522. NCBI PubMed. Web.
- Stott, K E, T de Oliviera, and R J Lessells. "Combined Antiretroviral and Anti-Tuberculosis Drug Resistance Following Incarceration." Southern African Journal of HIV Medicine 14.3 (2013): 135–137. NCBI PubMed. Web.
- 69. Tanser, Frank, Till Bärnighausen, et al. "High Coverage of ART Associated with Decline in Risk of HIV Acquisition in Rural KwaZulu-Natal, South Africa." Science (New York, N.Y.) 339.6122 (2013): 966–971. NCBI PubMed. Web.
- 70. Tanser, Frank, Kyle G Jones, et al. "Human Papillomavirus Seropositivity and Subsequent Risk of HIV Acquisition in Rural South African Women." Sexually transmitted diseases 40.7 (2013): 601–606. NCBI PubMed. Web.
- Ting, Stephen M S et al. "Reduced Functional Measure of Cardiovascular Reserve Predicts Admission to Critical Care Unit Following Kidney Transplantation." PLoS ONE 8.5 (2013): e64335. NCBI PubMed. Web.
- Titanji, Boghuma Kabisen et al. "Protease Inhibitors Effectively Block Cell-to-Cell Spread of HIV-1 between T Cells." Retrovirology 10.1 (2013): 161. NCBI PubMed. Web.

- 73. Treffry-Goatley, Astrid, Mduduzi Mahlinza, and John Imrie. "Public Engagement with HIV in a Rural South African Context: An Analysis of a Small-Media, Taxi-Based Edutainment Model Applied in Jiving with Science." Critical Arts 27.1 (2013): 112–126. Taylor and Francis+NEJM. Web. 20 Jan. 2014.
- Van Rooyen, Heidi et al. "Mobile VCT: Reaching Men and Young People in Urban and Rural South African Pilot Studies (NIMH Project Accept, HPTN 043)." AIDS and behavior 17.9 (2013): 2946–2953. NCBI PubMed. Web.
- Van Zyl, Gert U et al. "Trends in Genotypic HIV-1 Antiretroviral Resistance between 2006 and 2012 in South African Patients Receiving First- and Second-Line Antiretroviral Treatment Regimens." PLoS ONE 8.6 (2013): e67188. NCBI PubMed. Web.
- 76. Zaba, Basia et al. "Effect of HIV Infection on Pregnancy-Related Mortality in Sub-Saharan Africa: Secondary Analyses of Pooled Community-Based Data from the Network for Analysing Longitudinal Population-Based HIV/AIDS Data on Africa (ALPHA)." Lancet 381.9879 (2013): 1763–1771. NCBI PubMed. Web.
- Zaidi, Jaffer et al. "Dramatic Increase in HIV Prevalence after Scale-up of Antiretroviral Treatment." AIDS (London, England) 27.14 (2013): 2301–2305. NCBI PubMed. Web.
- Bertram, Melanie Y et al. "The Disability Adjusted Life Years due to Stroke in South Africa in 2008." International journal of stroke: official journal of the International Stroke Society 8 Suppl A100 (2013): 76–80. NCBI PubMed. Web.
- Bertram, Melanie Y. et al. "The Non-Fatal Disease Burden Caused by Type 2 Diabetes in South Africa, 2009." Global Health Action 6 (2013): 19244. PubMed Central. Web. 19 June 2014.
- Byass, Peter et al. "Reflections on the Global Burden of Disease 2010 Estimates." PLoS medicine 10.7 (2013): e1001477. NCBI PubMed. Web.
- Cabrera Escobar, Maria A et al. "Evidence That a Tax on Sugar Sweetened Beverages Reduces the Obesity Rate: A Meta-Analysis." BMC Public Health 13 (2013): 1072. NCBI PubMed. Web.
- 82. Clark, Samuel J et al. "Young Children's Probability of Dying before and after Their Mother's Death: A Rural South African Population-Based Surveillance Study." PLoS Medicine 10.3 (2013): e1001409. NCBI PubMed. Web.
- 83. Cohen, Cheryl et al. "Severe Influenza-Associated Respiratory Infection in High HIV Prevalence Setting, South Africa, 2009-2011." Emerging Infectious Diseases 19.11 (2013): 1766–1774. NCBI PubMed. Web.
- Cooper, Peter A. "Exploring the Paradox: Double Burden of Malnutrition in Rural South Africa." Global Health Action 6 (2013): n. pag. PubMed Central. Web. 19 June 2014.
- Cortina, Melissa A et al. "Childhood Psychological Problems in School Settings in Rural Southern Africa." PloS one 8.6 (2013): e65041. NCBI PubMed. Web.
- 86. Garenne, Michel et al. "Protective Effect of Pregnancy in Rural South Africa: Questioning the Concept of 'Indirect Cause' of Maternal Death." PloS one 8.5 (2013): e64414. NCBI PubMed. Web.
- 87. Gerritsen, Annette et al. "Health and Demographic Surveillance Systems: Contributing to an Understanding of the Dynamics in Migration and Health." Global Health Action 6 (2013): 21496. Print.
- Gomez-Olive, Francesc Xavier et al. "Self-Reported Health and Health Care Use in an Ageing Population in the Agincourt Sub-District of Rural South Africa." Global Health Action 6 (2013): n. pag. PubMed Central. Web. 30 Jan. 2014.

- 89. Gómez-Olivé, Francesc Xavier et al. "Prevalence of HIV among Those 15 and Older in Rural South Africa." AIDS care 25.9 (2013): 1122–1128. NCBI PubMed. Web.
- Hofman, Karen et al. "Addressing Research Capacity for Health Equity and the Social Determinants of Health in Three African Countries: The INTREC Programme." Global Health Action 6 (2013): 19668. Print.
- Houle, Brian et al. "Household Context and Child Mortality in Rural South Africa: The Effects of Birth Spacing, Shared Mortality, Household Composition and Socio-Economic Status." International journal of epidemiology 42.5 (2013): 1444–1454. NCBI PubMed. Web.
- 92. Hounton, Sennen et al. "Towards Elimination of Maternal Deaths: Maternal Deaths Surveillance and Response." Reproductive Health 10 (2013): 1. NCBI PubMed. Web.
- 93. Hunter, Lori M. et al. "Rural Outmigration, Natural Capital, and Livelihoods in South Africa." *Population, Space and Place* (2013): n/a-n/a. Wiley Online Library. Web. 30 Jan. 2014.
- 94. Jager, P. de et al. "Cost and Cost-Effectiveness of Conventional and Liquid-Based Cytology in South Africa: A Laboratory Service Provider Perspective." South African Journal of Obstetrics and Gynaecology 19.2 (2013): 44–48. Print.
- 95. Khan, Taskeen et al. "Preventing Diabetes Blindness: Cost Effectiveness of a Screening Programme Using Digital Non-Mydriatic Fundus Photography for Diabetic Retinopathy in a Primary Health Care Setting in South Africa." Diabetes research and clinical practice 101.2 (2013): 170–176. NCBI PubMed. Web.
- Kimani-Murage, E W et al. "'It's My Secret': Barriers to Paediatric HIV Treatment in a Poor Rural South African Setting." AIDS care 25.6 (2013): 744–747. NCBI PubMed. Web.
- Kimani-Murage, Elizabeth W. "Exploring the Paradox: Double Burden of Malnutrition in Rural South Africa." Global Health Action 6.0 (2013): n. pag. CrossRef. Web. 30 Jan. 2014.
- Kirkland, Tracy M. et al. "Toward Improved Understanding of Food Security: A Methodological Examination Based in Rural South Africa." Food, Culture and Society: An International Journal of MultidisciplinaryResearch 16.1 (2013): 65–84. IngentaConnect. Web.
- Leitao, Jordana et al. "Revising the WHO Verbal Autopsy Instrument to Facilitate Routine Cause-of-Death Monitoring." Global Health Action 6 (2013): 21518. Print.
- 100. Lippman, Sheri A et al. "Conceptualizing Community Mobilization for HIV Prevention: Implications for HIV Prevention Programming in the African Context." PLoS ONE 8.10 (2013): e78208. NCBI PubMed. Web.
- MacPhail, Catherine et al. "Acceptability and Feasibility of Cash Transfers for HIV Prevention among Adolescent South African Women." AIDS and behavior 17.7 (2013): 2301–2312. NCBI PubMed. Web.
- 102. Madhavan, Sangeetha, Abigail Harrison, and Christie Sennott. "Management of Non-Marital Fertility in Two South African Communities." Culture, health & sexuality 15.5 (2013): 614–628. NCBI PubMed. Web.
- 103. Moyes, Jocelyn et al. "Epidemiology of Respiratory Syncytial Virus-Associated Acute Lower Respiratory Tract Infection Hospitalizations among HIV-Infected and HIV-Uninfected South African Children, 2010-2011." The Journal of infectious diseases 208 Suppl 3 (2013): S217–226. NCBI PubMed. Web.

- 104. Musenge, Eustasius, Tobias Freeman Chirwa, et al. "Bayesian Analysis of Zero Inflated Spatiotemporal HIV/ TB Child Mortality Data through the INLA and SPDE Approaches: Applied to Data Observed between 1992 and 2010 in Rural North East South Africa." International Journal of Applied Earth Observation and Geoinformation 22 (2013): 86–98. ScienceDirect. Web. 30 Jan. 2014.
- 105. Musenge, Eustasius, Penelope Vounatsou, et al. "The Contribution of Spatial Analysis to Understanding HIV/ TB Mortality in Children: A Structural Equation Modelling Approach." Global Health Action 6 (2013): n. pag. PubMed Central. Web. 30 Jan. 2014.
- 106. Ngugi, Anthony K et al. "Prevalence of Active Convulsive Epilepsy in Sub-Saharan Africa and Associated Risk Factors: Cross-Sectional and Case-Control Studies." Lancet neurology 12.3 (2013): 253–263. NCBI PubMed. Web.
- Nzenze, Susan A et al. "Temporal Changes in Pneumococcal Colonization in a Rural African Community with High HIV Prevalence Following Routine Infant Pneumococcal Immunization." The Pediatric Infectious Disease Journal 32.11 (2013): 1270–1278. NCBI PubMed. Web.
- Sartorius, Benn, Kathleen Kahn, et al. "Dying in Their Prime: Determinants and Space-Time Risk of Adult Mortality in Rural South Africa." Geospatial health 7.2 (2013): 237–249. Print.
- Sartorius, Benn, C Cohen, et al. "Identifying High-Risk Areas for Sporadic Measles Outbreaks: Lessons from South Africa." Bulletin of the World Health Organization 91.3 (2013): 174–183. NCBI PubMed. Web.
- 110. Sartorius, Benn. "Modelling Determinants, Impact, and Space-Time Risk of Age-Specific Mortality in Rural South Africa: Integrating Methods to Enhance Policy Relevance." Global Health Action 6 (2013): n. pag. PubMed Central. Web. 30 Jan. 2014.
- Sartorius, Kurt et al. "Rural Poverty Dynamics and Refugee Communities in South Africa: A Spatial-Temporal Model." (2013): n. pag. repository.up.ac.za. Web. 30 Jan. 2014.
- 112. Sartorius, Kurt, and Benn K D Sartorius. "A Spatial Model to Quantify the Mortality Impact of Service Delivery in Sub-Saharan Africa: An Ecological Design Utilizing Data from South Africa." International journal of health geographics 12 (2013): 8. NCBI PubMed. Web.
- 113. Schatz, Enid, Leah Gilbert, and Courtney McDonald. "'If the Doctors See That They Don't Know How to Cure the Disease, They Say It's AIDS': How Older Women in Rural South Africa Make Sense of the HIV/AIDS Epidemic." African Journal of AIDS Research 12.2 (2013): 95–104. Print.
- 114. Sharrow, David J et al. "The Age Pattern of Increases in Mortality Affected by HIV: Bayesian Fit of the Heligman-Pollard Model to Data from the Agincourt HDSS Field Site in Rural Northeast South Africa." Demographic research 29 (2013): 1039–1096. NCBI PubMed. Web.
- 115. Van Heerden, Alastair et al. "Collecting Maternal Health Information from HIV-Positive Pregnant Women Using Mobile Phone-Assisted Face-to-Face Interviews in Southern Africa." Journal of Medical Internet Research 15.6 (2013): e116. NCBI PubMed. Web.
- 116. Verguet, Stéphane et al. "Impact of Supplemental Immunisation Activity (SIA) Campaigns on Health Systems: Findings from South Africa." Journal of epidemiology and community health 67.11 (2013): 947–952. NCBI PubMed. Web.
- "Supplementary Immunization Activities (SIAs) in South Africa: Comprehensive Economic Evaluation of an Integrated Child Health Delivery Platform." Global Health Action 6 (2013): 1–9. Print.

- 118. Wessels, K J et al. "Unsustainable Fuelwood Extraction from South African Savannas." Environmental Research Letters 8.1 (2013): 14007–14016. IngentaConnect. Web.
- 119. Wesson, Hadley Kh et al. "The Cost of Injury and Trauma Care in Low- and Middle-Income Countries: A Review of Economic Evidence." Health Policy and Planning (2013): czt064. NCBI PubMed. Web.
- Williams, Jill et al. "Convergence in Fertility of South Africans and Mozambicans in Rural South Africa, 1993-2009." Global Health Action 6 (2013): 20–26. PubMed Central. Web. 30 Jan. 2014.
- 121. Amudhan, Senthil et al. "Effectiveness of Demand and Supply Side Interventions in Promoting Institutional Deliveries--a Quasi-Experimental Trial from Rural North India." International Journal of Epidemiology 42.3 (2013): 769–780. NCBI PubMed. Web.
- 122. Jamir, Limalemla et al. "Anthropometric Characteristics and Undernutrition Among Older Persons in a Rural Area of Northern India." Asia-Pacific Journal of Public Health / Asia-Pacific Academic Consortium for Public Health (2013): n. pag. NCBI PubMed. Web.
- 123. Kant, Shashi et al. "The Ballabgarh Health and Demographic Surveillance System (CRHSP-AlIMS)." International Journal of Epidemiology 42.3 (2013): 758–768. NCBI PubMed. Web.
- 124. Krishnan, A. et al. "Non-Specific Sex-Differential Effect of DTP Vaccination May Partially Explain the Excess Girl Child Mortality in Ballabgarh, India." Tropical medicine & international health: TM & IH 18.11 (2013): 1329–1337. NCBI PubMed. Web.
- ---. "Non-Specific Sex-Differential Effect of DTP Vaccination May Partially Explain the Excess Girl Child Mortality in Ballabgarh, India." Tropical Medicine & International Health 18.11 (2013): 1329–1337. Wiley Online Library. Web. 31 Jan. 2014.
- 126. Krishnan, Anand et al. "Socioeconomic Development and Girl Child Survival in Rural North India: Solution or Problem?" Journal of Epidemiology and Community Health 67.5 (2013): 419–426. NCBI PubMed. Web.
- 127. Palanivel, C. et al. "Causes of Death in Rural Adult Population of North India (2002-2007), Using Verbal Autopsy Tool." Indian Journal of Public Health 57.2 (2013): 78–83. NCBI PubMed. Web.
- 128. Salve, Harshal, Pradip Kharya, et al. "Psychiatric Morbidity at Secondary Level Health Facility in Ballabgarh, Haryana." Industrial Psychiatry Journal 22.1 (2013): 86–88. NCBI PubMed. Web.
- 129. Salve, Harshal, Rakesh Kumar, et al. "Suicide an Emerging Public Health Problem: Evidence from Rural Haryana, India." Indian Journal of Public Health 57.1 (2013): 40–42. NCBI PubMed. Web.
- 130. Singh, Pm, Anil Kumar, and Anjan Trikha. "Rural Perspective about Anesthesia and Anesthesiologist: A Cross-Sectional Study." Journal of Anaesthesiology, Clinical Pharmacology 29.2 (2013): 228–234. NCBI PubMed. Web.
- 131. Upadhyay, Ravi Prakash, Sanjay K Rai, and Anand Krishnan. "Using Three Delays Model to Understand the Social Factors Responsible for Neonatal Deaths in Rural Haryana, India." Journal of tropical pediatrics 59.2 (2013): 100–105. NCBI PubMed. Web.
- 132. Upadhyay, Ravi Prakash, Sanjay K. Rai, and Anand Krishnan. "Using Three Delays Model to Understand the Social Factors Responsible for Neonatal Deaths in Rural Haryana, India." Journal of Tropical Pediatrics 59.2 (2013): 100–105. NCBI PubMed. Web.

- 133. Bjerregaard-Andersen, Morten et al. "Establishing a Twin Registry in Guinea-Bissau." Twin research and human genetics: the official journal of the International Society for Twin Studies 16.1 (2013): 179–184. NCBI PubMed. Web.
- 134. Rudolf, Frauke et al. "The Bandim Tuberculosis Score: Reliability and Comparison with the Karnofsky Performance Score." Scandinavian journal of infectious diseases 45.4 (2013): 256–264. NCBI PubMed. Web.
- 135. Tadesse, Sebsibe. "Validating the InterVA Model to Estimate the Burden of Mortality from Verbal Autopsy Data: A Population-Based Cross-Sectional Study." PLoS ONE 8.9 (2013): e73463. NCBI PubMed. Web.
- 136. Tadesse, Takele et al. "Long Distance Travelling and Financial Burdens Discourage Tuberculosis DOTs Treatment Initiation and Compliance in Ethiopia: A Qualitative Study." BMC Public Health 13 (2013): 424. NCBI PubMed. Web.
- Tadesse, Takele. "The Clustering of Smear-Positive Tuberculosis in Dabat, Ethiopia: A Population Based Cross Sectional Study." PLoS ONE 8.5 (2013): e65022. NCBI PubMed. Web.
- 138. Chinbuah, Margaret A., Mercy Abbey, et al. "Assessment of the Adherence of Community Health Workers to Dosing and Referral Guidelines for the Management of Fever in Children under 5 Years: A Study in Dangme West District, Ghana." International Health 5.2 (2013): 148–156. inthealth. oxfordjournals.org. Web. 8 Feb. 2014.
- 139. Chinbuah, Margaret A., Martin Adjuik, et al. "Impact of Treating Young Children with Antimalarials with or without Antibiotics on Morbidity: A Cluster-Randomized Controlled Trial in Ghana." International Health 5.3 (2013): 228–235. NCBI PubMed. Web.
- Gyapong, Margaret et al. "Profile: The Dodowa HDSS." International Journal of Epidemiology 42.6 (2013): 1686–1696. NCBI PubMed. Web.
- 141. Mauch, V. et al. "Free Tuberculosis Diagnosis and Treatment Are Not Enough: Patient Cost Evidence from Three Continents." The International Journal of Tuberculosis and Lung Disease: The Official Journal of the International Union Against Tuberculosis and Lung Disease 17.3 (2013): 381–387. NCBI PubMed. Web.
- 142. Barnett, Inka et al. "Cohort Profile: The Young Lives Study." International journal of epidemiology 42.3 (2013): 701–708. NCBI PubMed. Web.
- 143. Nguyen, Huong Thu, Bo Eriksson, Toan Khanh Tran, et al. "Birth Weight and Delivery Practice in a Vietnamese Rural District during 12 Year of Rapid Economic Development." BMC Pregnancy and Childbirth 13 (2013): 41. NCBI PubMed. Web.
- 144. Nguyen, Huong Thu, Bo Eriksson, Max Petzold, et al. "Factors Associated with Physical Growth of Children during the First Two Years of Life in Rural and Urban Areas of Vietnam." BMC Pediatrics 13 (2013): 149. NCBI PubMed. Web.
- 145. Toan Khanh, Tran et al. "Technology Preference in Choices of Delivery Care Utilization from User Perspective –A Community Study in Vietnam." American Journal of Public Health Research 1.1 (2013): 10–17. CrossRef. Web. 25 June 2014.
- 146. Ahmed, Sabeena et al. "Malaria Hotspots Drive Hypoendemic Transmission in the Chittagong Hill Districts of Bangladesh." PloS One 8.8 (2013): e69713. NCBI PubMed. Web.
- Alam, Dewan S. et al. "Smoking-Attributable Mortality in Bangladesh: Proportional Mortality Study." Bulletin of the World Health Organization 91.10 (2013): 757–764. NCBI PubMed. Web.

- 148. Ali, Mohammad et al. "Time Series Analysis of Cholera in Matlab, Bangladesh, during 1988-2001." Journal of Health, Population, and Nutrition 31.1 (2013): 11–19. Print.
- DaVanzo, Julie et al. "Influences on Pregnancy-Termination Decisions in Matlab, Bangladesh." Demography 50.5 (2013): 1739–1764. NCBI PubMed. Web.
- 150. Escamilla, Veronica et al. "Influence of Latrine Proximity and Type on Tubewell Water Quality and Diarrheal Disease in Bangladesh." Annals of the Association of American Geographers 103.2 (2013): 299–308. Taylor and Francis+NEJM. Web. 12 Aug. 2014.
- 151. Hashizume, Masahiro et al. "A Differential Effect of Indian Ocean Dipole and El Niño on Cholera Dynamics in Bangladesh." PloS One 8.3 (2013): e60001. NCBI PubMed. Web
- 152. Perez-Heydrich, Carolina et al. "Social and Spatial Processes Associated with Childhood Diarrheal Disease in Matlab, Bangladesh." Health & Place 19 (2013): 45–52. NCBI PubMed. Web.
- 153. Prue, Chai S et al. "Mobile Phones Improve Case Detection and Management of Malaria in Rural Bangladesh." Malaria journal 12 (2013): 48. NCBI PubMed. Web.
- 154. Rahman, Mahfuzar et al. "Increased Childhood Mortality and Arsenic in Drinking Water in Matlab, Bangladesh: A Population-Based Cohort Study." PLoS ONE 8.1 (2013): e55014. NCBI PubMed. Web.
- 155. Rahman, Syed Moshfiqur et al. "Elevated Manganese Concentrations in Drinking Water May Be Beneficial for Fetal Survival." PLoS ONE 8.9 (2013): e74119. NCBI PubMed. Web.
- 156. Root, Elisabeth Dowling et al. "The Role of Socioeconomic Status in Longitudinal Trends of Cholera in Matlab, Bangladesh, 1993-2007." PLoS Neglected Tropical Diseases 7.1 (2013): e1997. NCBI PubMed. Web.
- Saha, Unnati Rani, and Arthur van Soest. "Contraceptive Use, Birth Spacing, and Child Survival in Matlab, Bangladesh." Studies in Family Planning 44.1 (2013): 45–66. NCBI PubMed. Web.
- 158. Shenk, Mary K., Mary C. Towner, et al. "A Model Comparison Approach Shows Stronger Support for Economic Models of Fertility Decline." Proceedings of the National Academy of Sciences of the United States of America 110.20 (2013): 8045–8050. NCBI PubMed. Web.
- 159. Shenk, Mary K., Kathrine Starkweather, et al. "Does Absence Matter?: A Comparison of Three Types of Father Absence in Rural Bangladesh." Human Nature (Hawthorne, N.Y.) 24.1 (2013): 76–110. NCBI PubMed. Web.
- 160. Streatfield, Peter Kim, and Nahid Kamal. "Population and Family Planning in Bangladesh." JPMA. The Journal of the Pakistan Medical Association 63.4 Suppl 3 (2013): S73–81. Print.
- Winston, Jennifer Jane et al. "Protective Benefits of Deep Tube Wells against Childhood Diarrhea in Matlab, Bangladesh." American journal of public health 103.7 (2013): 1287–1291. NCBI PubMed. Web.
- 162. Agnarson, Abela Mpobela et al. "Antiretroviral Treatment Knowledge and Stigma--Implications for Programs and HIV Treatment Interventions in Rural Tanzanian Populations." PloS one 8.1 (2013): e53993. NCBI PubMed. Web.
- 163. Exavery, Amon, Angelina M Lutambi, et al. "Gender-Based Distributional Skewness of the United Republic of Tanzania's Health Workforce Cadres: A Cross-Sectional Health Facility Survey." Human Resources for Health 11.1 (2013): 28. NCBI PubMed. Web.

- 164. Exavery, Amon, Almamy Malick Kanté, et al. "How Mistimed and Unwanted Pregnancies Affect Timing of Antenatal Care Initiation in Three Districts in Tanzania." BMC pregnancy and childbirth 13 (2013): 35. NCBI PubMed. Web.
- 165. Franzeck, Fabian C et al. "Viral Hepatitis and Rapid Diagnostic Test Based Screening for HBsAg in HIV-Infected Patients in Rural Tanzania." PloS one 8.3 (2013): e58468. NCBI PubMed. Web.
- 166. Govella, Nicodem J, Prosper P Chaki, and Gerry F Killeen. "Entomological Surveillance of Behavioural Resilience and Resistance in Residual Malaria Vector Populations." Malaria journal 12.124 (2013): 10–1186. NCBI PubMed. Web.
- 167. Haji, Khamis A et al. "Challenges for Malaria Elimination in Zanzibar: Pyrethroid Resistance in Malaria Vectors and Poor Performance of Long-Lasting Insecticide Nets." Parasites & vectors 6.1 (2013): 82. NCBI PubMed. Web.
- 168. Harris, Caroline et al. "Sterilising Effects of Pyriproxyfen on Anopheles Arabiensis and Its Potential Use in Malaria Control." Parasites & vectors 6 (2013): 144. NCBI PubMed. Web.
- 169. Hella, Jerry Joseph et al. "Paraspinal Abscess Secondary to Tuberculous Spondylitis Diagnosed by Xpert MTB/RIF Assay in Rural Tanzania." BMJ case reports 2013 (2013): n. pag. NCBI PubMed. Web.
- 170. Hofman, Karen et al. "Addressing Research Capacity for Health Equity and the Social Determinants of Health in Three African Countries: The INTREC Programme." Global Health Action 6 (2013): 19668. Print.
- 171. Huho, Bernadette et al. "Consistently High Estimates for the Proportion of Human Exposure to Malaria Vector Populations Occurring Indoors in Rural Africa." International journal of epidemiology 42.1 (2013): 235–247. NCBI PubMed. Web.
- 172. Illah, Evance et al. "Causes and Risk Factors for Maternal Mortality in Rural Tanzania--Case of Rufiji Health and Demographic Surveillance Site (HDSS)." African Journal of Reproductive Health 17.3 (2013): 119–130. Print.
- 173. Irish, Seth R et al. "Evaluation of Gravid Traps for the Collection of Culex Quinquefasciatus, a Vector of Lymphatic Filariasis in Tanzania." Transactions of the Royal Society of Tropical Medicine and Hygiene 107.1 (2013): 15–22. NCBI PubMed. Web.
- 174. Joseph, Deokary et al. "Exploration of in Vivo Efficacy of Artemether-Lumefantrine against Uncomplicated Plasmodium Falciparum Malaria in under Fives in Tabora Region, Tanzania." Malaria journal 12 (2013): 60. NCBI PubMed Web.
- 175. Khatib, Rashid A et al. "Access to Artemisinin-Based Anti-Malarial Treatment and Its Related Factors in Rural Tanzania." Malaria journal 12 (2013): 155. NCBI PubMed. Web.
- 176. Killeen, Gerry F. "A Second Chance to Tackle African Malaria Vector Mosquitoes That Avoid Houses and Don't Take Drugs." The American journal of tropical medicine and hygiene 88.5 (2013): 809–816. NCBI PubMed. Web.
- 177. ---. "Eliminating Malaria Vectors." Parasites & vectors 6 (2013): 172. NCBI PubMed. Web.
- 178. Lorenz, Lena M et al. "Taxis Assays Measure Directional Movement of Mosquitoes to Olfactory Cues." Parasites & vectors 6.1 (2013): 131. NCBI PubMed. Web.
- 179. Lwetoijera, Dickson W et al. "A Need for Better Housing to Further Reduce Indoor Malaria Transmission in Areas with High Bed Net Coverage." Parasites & vectors 6 (2013): 57. NCBI PubMed. Web.

- Lyimo, Issa N et al. "The Impact of Host Species and Vector Control Measures on the Fitness of African Malaria Vectors." Proceedings. Biological sciences / The Royal Society 280.1754 (2013): 20122823. NCBI PubMed. Web.
- Majambere, Silas et al. "Advantages and Limitations of Commercially Available Electrocuting Grids for Studying Mosquito Behaviour." Parasites & vectors 6 (2013): 53. NCBI PubMed. Web.
- 182. Masanja, Irene M. et al. "Correct Dosing of Artemether-Lumefantrine for Management of Uncomplicated Malaria in Rural Tanzania: Do Facility and Patient Characteristics Matter?" Malaria Journal 12.1 (2013): 446. NCBI PubMed. Web.
- 183. Matowo, Nancy S et al. "Using a New Odour-Baited Device to Explore Options for Luring and Killing Outdoor-Biting Malaria Vectors: A Report on Design and Field Evaluation of the Mosquito Landing Box." Parasites & vectors 6.1 (2013): 137. NCBI PubMed. Web.
- McAuliffe, Eilish et al. "The Critical Role of Supervision in Retaining Staff in Obstetric Services: A Three Country Study." PloS one 8.3 (2013): e58415. NCBI PubMed. Web.
- 185. Minzi, Omary Ms et al. "Comparison of Bioavailability between the Most Available Generic Tablet Formulation Containing Artemether and Lumefantrine on the Tanzanian Market and the Innovator's Product." Malaria journal 12.1 (2013): 174. NCBI PubMed. Web.
- 186. Mkopi, Abdallah et al. "Health Workers' Performance in the Implementation of Patient Centred Tuberculosis Treatment (PCT) Strategy under Programmatic Conditions in Tanzania: A Cross Sectional Study." BMC Health Services Research 13 (2013): 101. PubMed Central. Web. 23 Feb. 2014.
- 187. Mwangoka, Grace et al. "Experience and Challenges from Clinical *Trials* with Malaria Vaccines in Africa." *Malaria journal* 12 (2013): 86. *NCBI PubMed*. Web.
- 188. Nattey, Cornelius, Honorati Masanja, and Kerstin Klipstein-Grobusch. "Relationship between Household Socio-Economic Status and under-Five Mortality in Rufiji DSS, Tanzania." Global Health Action 6 (2013): n. pag. PubMed Central. Web. 23 Feb. 2014.
- 189. Ngugi, Anthony K et al. "Prevalence of Active Convulsive Epilepsy in Sub-Saharan Africa and Associated Risk Factors: Cross-Sectional and Case-Control Studies." Lancet neurology 12.3 (2013): 253–263. NCBI PubMed. Web.
- 190. Njau, Joseph D. et al. "Adverse Drug Events Resulting from Use of Drugs with Sulphonamide-Containing Anti-Malarials and Artemisinin-Based Ingredients: Findings on Incidence and Household Costs from Three Districts with Routine Demographic Surveillance Systems in Rural Tanzania." Malaria Journal 12.1 (2013): 236. NCBI PubMed. Web.
- 191. Njozi, Mustafa et al. "Predictors of Antibiotics Co-Prescription with Antimalarials for Patients Presenting with Fever in Rural Tanzania." BMC Public Health 13 (2013): 1097. NCBI PubMed. Web.
- 192. Okumu, Fredros O, Edgar Mbeyela, et al. "Comparative Field Evaluation of Combinations of Long-Lasting Insecticide Treated Nets and Indoor Residual Spraying, Relative to Either Method Alone, for Malaria Prevention in an Area Where the Main Vector Is Anopheles Arabiensis." Parasites & vectors 6 (2013): 46. NCBI PubMed. Web.
- 193. Okumu, Fredros O, Samson S Kiware, et al. "Mathematical Evaluation of Community Level Impact of Combining Bed Nets and Indoor Residual Spraying upon Malaria Transmission in Areas Where the Main Vectors Are Anopheles Arabiensis Mosquitoes." Parasites & vectors 6 (2013): 17. NCBI PubMed. Web.

- 194. Okumu, Fredros O. et al. "Outdoor Mosquito Control Using Odour-Baited Devices: Development and Evaluation of a Potential New Strategy to Complement Indoor Malaria Prevention Methods." MalariaWorld Journal 4.8 (2013): n. pag. Google Scholar. Web. 23 Feb. 2014.
- 195. Olafsdottir, Anna Elisabet, Pascale Allotey, and Daniel D Reidpath. "A Health System in Economic Crises: A Case Study from Iceland." Scandinavian Journal of Public Health 41.2 (2013): 198–205. NCBI PubMed. Web.
- 196. Penfold, Suzanne et al. "Staff Experiences of Providing Maternity Services in Rural Southern Tanzania - a Focus on Equipment, Drug and Supply Issues." BMC Health Services Research 13 (2013): 61. NCBI PubMed. Web.
- 197. Pohl, Christian et al. "Pulmonary Aspergilloma: A Treatment Challenge in Sub-Saharan Africa." PLoS Neglected Tropical Diseases 7.10 (2013): e2352. NCBI PubMed. Web.
- 198. Ramsey, Kate et al. "The Tanzania Connect Project: A Cluster-Randomized Trial of the Child Survival Impact of Adding Paid Community Health Workers to an Existing Facility-Focused Health System." BMC Health Services Research 13 Suppl 2 (2013): S6. NCBI PubMed. Web.
- 199. Renggli, Sabine et al. "Design, Implementation and Evaluation of a National Campaign to Deliver 18 Million Free Long-Lasting Insecticidal Nets to Uncovered Sleeping Spaces in Tanzania." Malaria journal 12 (2013): 85. NCBI PubMed. Web.
- 200. Russell, Tanya L et al. "Geographic Coincidence of Increased Malaria Transmission Hazard and Vulnerability Occurring at the Periphery of Two Tanzanian Villages." Malaria journal 12.1 (2013): 24. NCBI PubMed. Web.
- Sambo, Maganga et al. "The Burden of Rabies in Tanzania and Its Impact on Local Communities." PLoS Neglected Tropical Diseases 7.11 (2013): e2510. NCBI PubMed. Web.
- Samuelsen, Helle, Britt Pinkowski Tersbøl, and Selemani Said Mbuyita. "Do Health Systems Delay the Treatment of Poor Children? A Qualitative Study of Child Deaths in Rural Tanzania." BMC Health Services Research 13.1 (2013): 67. NCBI PubMed. Web.
- 203. Selemani, Majige et al. "Health Worker Factors Associated with Prescribing of Artemisinin Combination Therapy for Uncomplicated Malaria in Rural Tanzania." Malaria Journal 12.1 (2013): 334. NCBI PubMed. Web.
- 204. Shamba, Donat D et al. "Clean Home-Delivery in Rural Southern Tanzania: Barriers, Influencers, and Facilitators." Journal of health, population, and nutrition 31.1 (2013): 110– 117. Print.
- Shekalaghe, Seif et al. "Clinical Performance of an Automated Reader in Interpreting Malaria Rapid Diagnostic Tests in Tanzania." Malaria journal 12.1 (2013): 141. NCBI PubMed. Web.
- Sikaala, Chadwick H et al. "Evaluation of Alternative Mosquito Sampling Methods for Malaria Vectors in Lowland South--East Zambia." Parasites & vectors 6 (2013): 91. NCBI PubMed. Web.
- Sumaye, Robert D. et al. "Inter-Epidemic Transmission of Rift Valley Fever in Livestock in the Kilombero River Valley, Tanzania: A Cross-Sectional Survey." PLoS Neglected Tropical Diseases 7.8 (2013): e2356. NCBI PubMed. Web.
- 208. Wong, Jacklyn et al. "Standardizing Operational Vector Sampling Techniques for Measuring Malaria Transmission Intensity: Evaluation of Six Mosquito Collection Methods in Western Kenya." Malaria Journal 12 (2013): 143. NCBI PubMed. Web.

- 209. Agnarson, Abela Mpobela et al. "Antiretroviral Treatment Knowledge and Stigma--Implications for Programs and HIV Treatment Interventions in Rural Tanzanian Populations." PloS one 8.1 (2013): e53993. NCBI PubMed. Web.
- Exavery, Amon, Angelina M Lutambi, et al. "Gender-Based Distributional Skewness of the United Republic of Tanzania's Health Workforce Cadres: A Cross-Sectional Health Facility Survey." Human Resources for Health 11.1 (2013): 28. NCBI PubMed. Web.
- 211. Exavery, Amon, Almamy Malick Kanté, et al. "How Mistimed and Unwanted Pregnancies Affect Timing of Antenatal Care Initiation in Three Districts in Tanzania." BMC pregnancy and childbirth 13 (2013): 35. NCBI PubMed. Web.
- Franzeck, Fabian C et al. "Viral Hepatitis and Rapid Diagnostic Test Based Screening for HBsAg in HIV-Infected Patients in Rural Tanzania." PloS one 8.3 (2013): e58468. NCBI PubMed. Web.
- Govella, Nicodem J, Prosper P Chaki, and Gerry F Killeen. "Entomological Surveillance of Behavioural Resilience and Resistance in Residual Malaria Vector Populations." Malaria journal 12.124 (2013): 10–1186. NCBI PubMed. Web.
- 214. Haji, Khamis A et al. "Challenges for Malaria Elimination in Zanzibar: Pyrethroid Resistance in Malaria Vectors and Poor Performance of Long-Lasting Insecticide Nets." Parasites & vectors 6.1 (2013): 82. NCBI PubMed. Web.
- Harris, Caroline et al. "Sterilising Effects of Pyriproxyfen on Anopheles Arabiensis and Its Potential Use in Malaria Control." Parasites & vectors 6 (2013): 144. NCBI PubMed. Web.
- Hella, Jerry Joseph et al. "Paraspinal Abscess Secondary to Tuberculous Spondylitis Diagnosed by Xpert MTB/RIF Assay in Rural Tanzania." BMJ case reports 2013 (2013): n. pag. NCBI PubMed. Web.
- 217. Hofman, Karen et al. "Addressing Research Capacity for Health Equity and the Social Determinants of Health in Three African Countries: The INTREC Programme." Global Health Action 6 (2013): 19668. Print.
- Huho, Bernadette et al. "Consistently High Estimates for the Proportion of Human Exposure to Malaria Vector Populations Occurring Indoors in Rural Africa." International journal of epidemiology 42.1 (2013): 235–247. NCBI PubMed Web.
- Illah, Evance et al. "Causes and Risk Factors for Maternal Mortality in Rural Tanzania--Case of Rufiji Health and Demographic Surveillance Site (HDSS)." African Journal of Reproductive Health 17.3 (2013): 119–130. Print.
- 220. Irish, Seth R et al. "Evaluation of Gravid Traps for the Collection of Culex Quinquefasciatus, a Vector of Lymphatic Filariasis in Tanzania." Transactions of the Royal Society of Tropical Medicine and Hygiene 107.1 (2013): 15–22. NCBI PubMed. Web.
- Joseph, Deokary et al. "Exploration of in Vivo Efficacy of Artemether-Lumefantrine against Uncomplicated Plasmodium Falciparum Malaria in under Fives in Tabora Region, Tanzania." Malaria journal 12 (2013): 60. NCBI PubMed. Web.
- 222. Khatib, Rashid A et al. "Access to Artemisinin-Based Anti-Malarial Treatment and Its Related Factors in Rural Tanzania." Malaria journal 12 (2013): 155. NCBI PubMed. Web.
- 223. Killeen, Gerry F. "A Second Chance to Tackle African Malaria Vector Mosquitoes That Avoid Houses and Don't Take Drugs." The American journal of tropical medicine and hygiene 88.5 (2013): 809–816. NCBI PubMed. Web.

- Killeen, Gerry F. "Eliminating Malaria Vectors." Parasites & vectors 6 (2013): 172. NCBI PubMed. Web.
- Lorenz, Lena M et al. "Taxis Assays Measure Directional Movement of Mosquitoes to Olfactory Cues." Parasites & vectors 6.1 (2013): 131. NCBI PubMed. Web.
- 226. Lwetoijera, Dickson W et al. "A Need for Better Housing to Further Reduce Indoor Malaria Transmission in Areas with High Bed Net Coverage." Parasites & vectors 6 (2013): 57. NCBI PubMed. Web.
- Lyimo, Issa N et al. "The Impact of Host Species and Vector Control Measures on the Fitness of African Malaria Vectors." Proceedings. Biological sciences / The Royal Society 280.1754 (2013): 20122823. NCBI PubMed. Web.
- Majambere, Silas et al. "Advantages and Limitations of Commercially Available Electrocuting Grids for Studying Mosquito Behaviour." Parasites & vectors 6 (2013): 53. NCBI PubMed. Web.
- 229. Masanja, Irene M. et al. "Correct Dosing of Artemether-Lumefantrine for Management of Uncomplicated Malaria in Rural Tanzania: Do Facility and Patient Characteristics Matter?" Malaria Journal 12.1 (2013): 446. NCBI PubMed. Web.
- 230. Matowo, Nancy S et al. "Using a New Odour-Baited Device to Explore Options for Luring and Killing Outdoor-Biting Malaria Vectors: A Report on Design and Field Evaluation of the Mosquito Landing Box." Parasites & vectors 6.1 (2013): 137. NCBI PubMed. Web.
- 231. McAuliffe, Eilish et al. "The Critical Role of Supervision in Retaining Staff in Obstetric Services: A Three Country Study." PloS one 8.3 (2013): e58415. NCBI PubMed. Web.
- 232. Minzi, Omary Ms et al. "Comparison of Bioavailability between the Most Available Generic Tablet Formulation Containing Artemether and Lumefantrine on the Tanzanian Market and the Innovator's Product." Malaria journal 12.1 (2013): 174. NCBI PubMed. Web.
- 233. Mkopi, Abdallah et al. "Health Workers' Performance in the Implementation of Patient Centred Tuberculosis Treatment (PCT) Strategy under Programmatic Conditions in Tanzania: A Cross Sectional Study." BMC Health Services Research 13 (2013): 101. PubMed Central. Web. 23 Feb. 2014.
- Mwangoka, Grace et al. "Experience and Challenges from Clinical Trials with Malaria Vaccines in Africa." Malaria journal 12 (2013): 86. NCBI PubMed. Web.
- 235. Nattey, Cornelius, Honorati Masanja, and Kerstin Klipstein-Grobusch. "Relationship between Household Socio-Economic Status and under-Five Mortality in Rufiji DSS, Tanzania." Global Health Action 6 (2013): n. pag. PubMed Central. Web. 23 Feb. 2014.
- 236. Ngugi, Anthony K et al. "Prevalence of Active Convulsive Epilepsy in Sub-Saharan Africa and Associated Risk Factors: Cross-Sectional and Case-Control Studies." Lancet neurology 12.3 (2013): 253–263. NCBI PubMed. Web.
- 237. Njau, Joseph D. et al. "Adverse Drug Events Resulting from Use of Drugs with Sulphonamide-Containing Anti-Malarials and Artemisinin-Based Ingredients: Findings on Incidence and Household Costs from Three Districts with Routine Demographic Surveillance Systems in Rural Tanzania." Malaria Journal 12.1 (2013): 236. NCBI PubMed. Web.
- 238. Njozi, Mustafa et al. "Predictors of Antibiotics Co-Prescription with Antimalarials for Patients Presenting with Fever in Rural Tanzania." BMC Public Health 13 (2013): 1097. NCBI PubMed. Web.

- 239. Okumu, Fredros O, Edgar Mbeyela, et al. "Comparative Field Evaluation of Combinations of Long-Lasting Insecticide Treated Nets and Indoor Residual Spraying, Relative to Either Method Alone, for Malaria Prevention in an Area Where the Main Vector Is Anopheles Arabiensis." Parasites & vectors 6 (2013): 46. NCBI PubMed. Web.
- 240. Okumu, Fredros O, Samson S Kiware, et al. "Mathematical Evaluation of Community Level Impact of Combining Bed Nets and Indoor Residual Spraying upon Malaria Transmission in Areas Where the Main Vectors Are Anopheles Arabiensis Mosquitoes." Parasites & vectors 6 (2013): 17. NCBI PubMed. Web.
- 241. Okumu, Fredros O. et al. "Outdoor Mosquito Control Using Odour-Baited Devices: Development and Evaluation of a Potential New Strategy to Complement Indoor Malaria Prevention Methods." MalariaWorld Journal 4.8 (2013): n. pag. Google Scholar. Web. 23 Feb. 2014.
- 242. Olafsdottir, Anna Elisabet, Pascale Allotey, and Daniel D Reidpath. "A Health System in Economic Crises: A Case Study from Iceland." Scandinavian Journal of Public Health 41.2 (2013): 198–205. NCBI PubMed. Web.
- 243. Penfold, Suzanne et al. "Staff Experiences of Providing Maternity Services in Rural Southern Tanzania a Focus on Equipment, Drug and Supply Issues." BMC Health Services Research 13 (2013): 61. NCBI PubMed. Web.
- 244. Pohl, Christian et al. "Pulmonary Aspergilloma: A Treatment Challenge in Sub-Saharan Africa." PLoS Neglected Tropical Diseases 7.10 (2013): e2352. NCBI PubMed. Web.
- 245. Ramsey, Kate et al. "The Tanzania Connect Project: A Cluster-Randomized Trial of the Child Survival Impact of Adding Paid Community Health Workers to an Existing Facility-Focused Health System." BMC Health Services Research 13 Suppl 2 (2013): S6. NCBI PubMed. Web.
- 246. Renggli, Sabine et al. "Design, Implementation and Evaluation of a National Campaign to Deliver 18 Million Free Long-Lasting Insecticidal Nets to Uncovered Sleeping Spaces in Tanzania." Malaria journal 12 (2013): 85. NCBI PubMed. Web.
- Russell, Tanya L et al. "Geographic Coincidence of Increased Malaria Transmission Hazard and Vulnerability Occurring at the Periphery of Two Tanzanian Villages." Malaria journal 12.1 (2013): 24. NCBI PubMed. Web.
- 248. Sambo, Maganga et al. "The Burden of Rabies in Tanzania and Its Impact on Local Communities." PLoS Neglected Tropical Diseases 7.11 (2013): e2510. NCBI PubMed. Web.
- 249. Samuelsen, Helle, Britt Pinkowski Tersbøl, and Selemani Said Mbuyita. "Do Health Systems Delay the Treatment of Poor Children? A Qualitative Study of Child Deaths in Rural Tanzania." BMC Health Services Research 13.1 (2013): 67. NCBI PubMed. Web.
- 250. Selemani, Majige et al. "Health Worker Factors Associated with Prescribing of Artemisinin Combination Therapy for Uncomplicated Malaria in Rural Tanzania." Malaria Journal 12.1 (2013): 334. NCBI PubMed. Web.
- Shamba, Donat D et al. "Clean Home-Delivery in Rural Southern Tanzania: Barriers, Influencers, and Facilitators." Journal of health, population, and nutrition 31.1 (2013): 110–117. Print.
- 252. Shekalaghe, Seif et al. "Clinical Performance of an Automated Reader in Interpreting Malaria Rapid Diagnostic Tests in Tanzania." Malaria journal 12.1 (2013): 141. NCBI PubMed. Web.
- 253. Sikaala, Chadwick H et al. "Evaluation of Alternative Mosquito Sampling Methods for Malaria Vectors in Lowland South--East Zambia." Parasites & vectors 6 (2013): 91. NCBI PubMed. Web.

- 254. Sumaye, Robert D. et al. "Inter-Epidemic Transmission of Rift Valley Fever in Livestock in the Kilombero River Valley, Tanzania: A Cross-Sectional Survey." PLoS Neglected Tropical Diseases 7.8 (2013): e2356. NCBI PubMed. Web.
- 255. Wong, Jacklyn et al. "Standardizing Operational Vector Sampling Techniques for Measuring Malaria Transmission Intensity: Evaluation of Six Mosquito Collection Methods in Western Kenya." Malaria Journal 12 (2013): 143. NCBI PubMed. Web.
- 256. Basta, Nicole E. et al. "Methods for Identifying Neisseria Meningitidis Carriers: A Multi-Center Study in the African Meningitis Belt." PloS One 8.10 (2013): e78336. NCBI PubMed. Web.
- Delaunay, Valerie et al. "Profile: The Niakhar Health and Demographic Surveillance System." International Journal of Epidemiology 42.4 (2013): 1002–1011. NCBI PubMed. Web.
- 258. Helleringer, Stéphane et al. "Misclassification of Pregnancy-Related Deaths in Adult Mortality Surveys: Case Study in Senegal." Tropical medicine & international health: TM & IH 18.1 (2013): 27–34. NCBI PubMed. Web.
- 259. Keita, Alpha Kabinet et al. "Looking for Tropheryma Whipplei Source and Reservoir in Rural Senegal." The American Journal of Tropical Medicine and Hygiene 88.2 (2013): 339–343. NCBI PubMed. Web.
- Mediannikov, Oleg et al. "Common Epidemiology of Rickettsia Felis Infection and Malaria, Africa." Emerging Infectious Diseases 19.11 (2013): 1775–1783. NCBI PubMed. Web.
- 261. MenAfriCar Consortium. "Meningococcal Carriage in the African Meningitis Belt." Tropical medicine & international health: TM & IH 18.8 (2013): 968–978. NCBI PubMed. Web.
- 262. Jampaklay, A., B. Entwisle, and J. M. Hagan. "Cross-Border Migration and Poverty: Evidence from the Kanchanaburi Demographic Surveillance System (KDSS), Thailand." Journal of Population and Social Studies 21.2 (Suppl.) (2013): S-28-S-48. Print.
- 263. De Vos, M et al. "Putative Compensatory Mutations in the rpoC Gene of Rifampin-Resistant Mycobacterium Tuberculosis Are Associated with Ongoing Transmission." Antimicrobial Agents and Chemotherapy 57.2 (2013): 827–832. NCBI PubMed. Web.
- 264. Goussard, Pierre et al. "Bronchoscopic Assessment of Airway Involvement in Children Presenting with Clinically Significant Airway Obstruction due to Tuberculosis." Pediatric Pulmonology 48.10 (2013): 1000–1007. NCBI PubMed. Web.
- 265. Houghton, Jacob L et al. "Unexpected N-Acetylation of Capreomycin by Mycobacterial Eis Enzymes." The Journal of antimicrobial chemotherapy 68.4 (2013): 800–805. NCBI PubMed. Web.
- 266. Kurbatova, E V et al. "Performance of Cepheid ® Xpert MTB/ RIF ® and TB-Biochip ® MDR in Two Regions of Russia with a High Prevalence of Drug-Resistant Tuberculosis." European journal of clinical microbiology & infectious diseases: official publication of the European Society of Clinical Microbiology 32.6 (2013): 735–743. NCBI PubMed. Web.
- 267. Leung, K L et al. "A Pilot External Quality Assurance Programme for Line-Probe Assay Detection of Anti-Tuberculosis Drug Resistance." The international journal of tuberculosis and lung disease: the official journal of the International Union against Tuberculosis and Lung Disease 17.2 (2013): 262–266. NCBI PubMed. Web.
- 268. Pang, Yu et al. "Study of the Rifampin Monoresistance Mechanism in Mycobacterium Tuberculosis." Antimicrobial Agents and Chemotherapy 57.2 (2013): 893–900. NCBI PubMed. Web.

- 269. Speer, Alexander et al. "Copper-Boosting Compounds: A Novel Concept for Antimycobacterial Drug Discovery." Antimicrobial Agents and Chemotherapy 57.2 (2013): 1089–1091. NCBI PubMed. Web.
- Szumowski, John D et al. "Antimicrobial Efflux Pumps and Mycobacterium Tuberculosis Drug Tolerance: Evolutionary Considerations." Current topics in microbiology and immunology 374 (2013): 81–108. NCBI PubMed. Web.
- 271. Wu, M-H et al. "Proficiency of Drug Susceptibility Testing for Mycobacterium Tuberculosis in Taiwan, 2007-2011." The international journal of tuberculosis and lung disease: the official journal of the International Union against Tuberculosis and Lung Disease 17.1 (2013): 113–119. NCBI PubMed. Web.
- 272. Zaba, Basia et al. "Effect of HIV Infection on Pregnancy-Related Mortality in Sub-Saharan Africa: Secondary Analyses of Pooled Community-Based Data from the Network for Analysing Longitudinal Population-Based HIV/AIDS Data on Africa (ALPHA)." Lancet 381.9879 (2013): 1763–1771. NCBI PubMed. Web.
- Kouanda, Séni et al. "The Kaya HDSS, Burkina Faso: A Platform for Epidemiological Studies and Health Programme Evaluation." International Journal of Epidemiology 42.3 (2013): 741–749. NCBI PubMed. Web.
- 274. Ouedraogo, H. G. et al. "Statut vaccinal contre le virus de l'hépatite B et facteurs associés parmi le personnel de santé au Burkina Faso." Médecine et santé tropicales 23.1 (2013): 72–77. Print.
- 275. Ridde, Valéry et al. "Why Do Women Pay More than They Should? A Mixed Methods Study of the Implementation Gap in a Policy to Subsidize the Costs of Deliveries in Burkina Faso." Evaluation and Program Planning 36.1 (2013): 145–152. NCBI PubMed. Web.
- Abubakar, Amina, Anneloes Van Baar, et al. "Socio-Cultural Determinants of Health-Seeking Behaviour on the Kenyan Coast: A Qualitative Study." PLoS ONE 8.11 (2013): e71998. NCBI PubMed. Web.
- 277. Abubakar, Amina, Penny Holding, et al. "The Performance of Children Prenatally Exposed to HIV on the A-Not-B Task in Kilifi, Kenya: A Preliminary Study." International Journal of Environmental Research and Public Health 10.9 (2013): 4132– 4142. NCBI PubMed. Web.
- 278. Agoti, Charles N. et al. "Identification of Group B Respiratory Syncytial Viruses That Lack the 60-Nucleotide Duplication after Six Consecutive Epidemics of Total BA Dominance at Coastal Kenya." Influenza and Other Respiratory Viruses 7.6 (2013): 1008–1012. NCBI PubMed. Web.
- Ayieko, Philip et al. "Assessment of Health Benefits and Cost-Effectiveness of 10-Valent and 13-Valent Pneumococcal Conjugate Vaccination in Kenyan Children." PLoS ONE 8.6 (2013): e67324. NCBI PubMed. Web.
- Band, Gavin et al. "Imputation-Based Meta-Analysis of Severe Malaria in Three African Populations." PLoS Genetics 9.5 (2013): e1003509. PubMed Central. Web. 29 July 2014.
- Abubakar, Amina, Anneloes Van Baar, et al. "Socio-Cultural Determinants of Health-Seeking Behaviour on the Kenyan Coast: A Qualitative Study." PLoS ONE 8.11 (2013): e71998. NCBI PubMed. Web.
- Abubakar, Amina, Penny Holding, et al. "The Performance of Children Prenatally Exposed to HIV on the A-Not-B Task in Kilifi, Kenya: A Preliminary Study." International Journal of Environmental Research and Public Health 10.9 (2013): 4132– 4142. NCBI PubMed. Web.
- 283. Agoti, Charles N. et al. "Identification of Group B Respiratory Syncytial Viruses That Lack the 60-Nucleotide Duplication after Six Consecutive Epidemics of Total BA Dominance at Coastal Kenya." Influenza and Other Respiratory Viruses 7.6 (2013): 1008–1012. NCBI PubMed. Web.

- Ayieko, Philip et al. "Assessment of Health Benefits and Cost-Effectiveness of 10-Valent and 13-Valent Pneumococcal Conjugate Vaccination in Kenyan Children." PLoS ONE 8.6 (2013): e67324. NCBI PubMed. Web.
- Band, Gavin et al. "Imputation-Based Meta-Analysis of Severe Malaria in Three African Populations." PLoS Genetics 9.5 (2013): e1003509. PubMed Central. Web. 29 July 2014.
- 286. Brueggemann, Angela B. et al. "Population Genetic Structure of Streptococcus Pneumoniae in Kilifi, Kenya, prior to the Introduction of Pneumococcal Conjugate Vaccine." PLoS ONE 8.11 (2013): e81539. NCBI PubMed. Web.
- 287. Fuller, James A. et al. "Estimation of the National Disease Burden of Influenza-Associated Severe Acute Respiratory Illness in Kenya and Guatemala: A Novel Methodology." PLoS ONE 8.2 (2013): e56882. NCBI PubMed. Web.
- Kariuki, Symon M. et al. "The Genetic Risk of Acute Seizures in African Children with Falciparum Malaria." *Epilepsia* 54.6 (2013): 990–1001. NCBI PubMed. Web.
- Munywoki, Patrick Kiio et al. "Severe Lower Respiratory Tract Infection in Early Infancy and Pneumonia Hospitalizations among Children, Kenya." Emerging Infectious Diseases 19.2 (2013): 223–229. NCBI PubMed. Web.
- Murungi, Linda M. et al. "A Threshold Concentration of Anti-Merozoite Antibodies Is Required for Protection from Clinical Episodes of Malaria." Vaccine 31.37 (2013): 3936– 3942. NCBI PubMed. Web.
- Ngugi, Anthony K., Christian Bottomley, J. Anthony G. Scott, et al. "Incidence of Convulsive Epilepsy in a Rural Area in Kenya." Epilepsia 54.8 (2013): 1352–1359. NCBI PubMed. Web.
- Ngugi, Anthony K., Christian Bottomley, Immo Kleinschmidt, et al. "Prevalence of Active Convulsive Epilepsy in Sub-Saharan Africa and Associated Risk Factors: Cross-Sectional and Case-Control Studies." Lancet Neurology 12.3 (2013): 253–263. NCBI PubMed. Web.
- Sande, C. J. et al. "Kinetics of the Neutralizing Antibody Response to Respiratory Syncytial Virus Infections in a Birth Cohort." Journal of Medical Virology 85.11 (2013): 2020–2025. NCBI PubMed. Web.
- 294. Sande, Charles J. et al. "Group- and Genotype-Specific Neutralizing Antibody Responses against Respiratory Syncytial Virus in Infants and Young Children with Severe Pneumonia." The Journal of Infectious Diseases 207.3 (2013): 489–492. NCBI PubMed. Web.
- 295. Weldearegawi, Berhe et al. "Emerging Chronic Non-Communicable Diseases in Rural Communities of Northern Ethiopia: Evidence Using Population-Based Verbal Autopsy Method in Kilite Awlaelo Surveillance Site." Health Policy and Planning 28.8 (2013): 891–898. NCBI PubMed. Web.
- Adu-Gyasi, Dennis et al. "Prevalence of Clinically Captured and Confirmed Malaria among HIV Seropositve Clinic Attendants in Five Hospitals in Ghana." Malaria Journal 12 (2013): 382. NCBI PubMed. Web.
- 297. Agyeman-Budu, Akua et al. "Trends in Multiplicity of Plasmodium Falciparum Infections among Asymptomatic Residents in the Middle Belt of Ghana." Malaria Journal 12 (2013): 22. NCBI PubMed. Web.
- 298. Asante, Kwaku Poku, Charlotte Tawiah Agyemang, et al. "Community Engagement in Biomedical Research in an African Setting: The Kintampo Health Research Centre Experience." BMC Health Services Research 13 (2013): 383. NCBI PubMed. Web.
- 299. Asante, Kwaku Poku, Seth Owusu-Agyei, et al. "Placental Malaria and the Risk of Malaria in Infants in a High Malaria Transmission Area in Ghana: A Prospective Cohort Study." The Journal of Infectious Diseases 208.9 (2013): 1504–1513. NCBI PubMed. Web.

- Bejon, Philip et al. "Efficacy of RTS,S Malaria Vaccines: Individual-Participant Pooled Analysis of Phase 2 Data." The Lancet Infectious Diseases 13.4 (2013): 319–327. NCBI PubMed. Web.
- Cairns, Matthew E. et al. "Analysis of Partial and Complete Protection in Malaria Cohort Studies." Malaria Journal 12 (2013): 355. NCBI PubMed. Web.
- Febir, Lawrence G et al. "Community Perceptions of a Malaria Vaccine in the Kintampo Districts of Ghana." Malaria Journal 12 (2013): 156. NCBI PubMed. Web.
- Ngugi, Anthony K. et al. "Prevalence of Active Convulsive Epilepsy in Sub-Saharan Africa and Associated Risk Factors: Cross-Sectional and Case-Control Studies." Lancet Neurology 12.3 (2013): 253–263. NCBI PubMed. Web.
- 304. Osei-Kwakye, Kingsley et al. "The Benefits or Otherwise of Managing Malaria Cases with or without Laboratory Diagnosis: The Experience in a District Hospital in Ghana." PLoS ONE 8.3 (2013): e58107. NCBI PubMed. Web.
- 305. Weobong, Benedict et al. "Determinants of Postnatal Depression in Rural Ghana: Findings from the Don Population Based Cohort Study." Depression and Anxiety (2013): n. pag. NCBI PubMed. Web.
- 306. Bashir, Ismail Mahat et al. "Comparison of PfHRP-2/pLDH ELISA, qPCR and Microscopy for the Detection of Plasmodium Events and Prediction of Sick Visits during a Malaria Vaccine Study." PLoS ONE 8.3 (2013): e56828. PLoS Journals. Web. 11 Aug. 2014.
- Bejon, Philip et al. "Efficacy of RTS,S Malaria Vaccines: Individual-Participant Pooled Analysis of Phase 2 Data." The Lancet Infectious Diseases 13.4 (2013): 319–327. NCBI PubMed. Web.
- Dalal, Warren et al. "Home-Based HIV Testing and Counseling in Rural and Urban Kenyan Communities." Journal of acquired immune deficiency syndromes (1999) 62.2 (2013): e47–54. NCBI PubMed. Web.
- Desai, Meghna et al. "An Analysis of Pregnancy-Related Mortality in the KEMRI/CDC Health and Demographic Surveillance System in Western Kenya." PLoS ONE 8.7 (2013): e68733. NCBI PubMed. Web.
- 310. Eyase, Fredrick L. et al. "The Role of Pfmdr1 and Pfcrt in Changing Chloroquine, Amodiaquine, Mefloquine and Lumefantrine Susceptibility in Western-Kenya P. Falciparum Samples during 2008-2011." PLoS ONE 8.5 (2013): e64299. NCBI PubMed. Web.
- Induli, Martha et al. "Antiplasmodial Quinones from the Rhizomes of Kniphofia Foliosa." Natural Product Communications 8.9 (2013): 1261–1264. Print.
- Kerubo, Leonidah Omosa et al. "Antiplasmodial Activity of Compounds from the Surface Exudates of Senecio Roseiflorus." Natural Product Communications 8.2 (2013): 175–176. Print.
- Knobel, Darryn L. et al. "Coxiella Burnetii in Humans, Domestic Ruminants, and Ticks in Rural Western Kenya." The American Journal of Tropical Medicine and Hygiene 88.3 (2013): 513–518. NCBI PubMed. Web.
- 314. Kotloff, Karen L. et al. "Burden and Aetiology of Diarrhoeal Disease in Infants and Young Children in Developing Countries (the Global Enteric Multicenter Study, GEMS): A Prospective, Case-Control Study." Lancet 382.9888 (2013): 209–222. NCBI PubMed. Web.
- 315. Mason, Linda et al. "'We Keep It Secret so No One Should Know'--a Qualitative Study to Explore Young Schoolgirls Attitudes and Experiences with Menstruation in Rural Western Kenya." PLoS ONE 8.11 (2013): e79132. NCBI PubMed. Web.

- Medley, Amy et al. "Early Uptake of HIV Clinical Care after Testing HIV-Positive during Home-Based Testing and Counseling in Western Kenya." AIDS and behavior 17.1 (2013): 224–234. NCBI PubMed. Web.
- 317. Nasrin, Dilruba et al. "Health Care Seeking for Childhood Diarrhea in Developing Countries: Evidence from Seven Sites in Africa and Asia." The American Journal of Tropical Medicine and Hygiene 89.1 Suppl (2013): 3–12. NCBI PubMed. Web.
- 318. Odhiambo, Frank O. et al. "Trauma-Related Mortality among Adults in Rural Western Kenya: Characterising Deaths Using Data from a Health and Demographic Surveillance System." PLoS ONE 8.11 (2013): e79840. NCBI PubMed. Web.
- 319. Otieno, Walter et al. "Sickle Cell Trait (HbAS) Is Associated with Increased Expression of Erythrocyte Complement Regulatory Proteins CR1 and CD55 Levels in Children." International Journal of TROPICAL DISEASE & Health 3.2 (2013): 133–147. CrossRef. Web. 11 Aug. 2014.
- 320. Otsyula, Nekoye et al. "Results from Tandem Phase 1 Studies Evaluating the Safety, Reactogenicity and Immunogenicity of the Vaccine Candidate Antigen Plasmodium Falciparum FVO Merozoite Surface Protein-1 (MSP1(42)) Administered Intramuscularly with Adjuvant System AS01." Malaria Journal 12.1 (2013): 29. NCBI PubMed. Web.
- 321. Wakadha, Hotenzia et al. "The Feasibility of Using Mobile-Phone Based SMS Reminders and Conditional Cash Transfers to Improve Timely Immunization in Rural Kenya." Vaccine 31.6 (2013): 987–993. NCBI PubMed. Web.
- 322. Alonso, Pedro L., and Marcel Tanner. "Public Health Challenges and Prospects for Malaria Control and Elimination." Nature Medicine 19.2 (2013): 150–155. NCBI PubMed. Web.
- 323. Castillo, P. et al. "Massive Plasmodium Falciparum Visceral Sequestration: A Cause of Maternal Death in Africa." Clinical Microbiology and Infection: The Official Publication of the European Society of Clinical Microbiology and Infectious Diseases 19.11 (2013): 1035–1041. NCBI PubMed. Web.
- 324. Chaccour, Carlos J. et al. "Ivermectin to Reduce Malaria Transmission: A Research Agenda for a Promising New Tool for Elimination." Malaria Journal 12 (2013): 153. NCBI PubMed. Web.
- Clifford, H. D. et al. "Impact of CD14 Promoter Variants on Measles Vaccine Responses and Vaccine Failure in Children from Australia and Mozambique." Tissue Antigens 82.6 (2013): 420–422. NCBI PubMed. Web.
- 326. González, Raquel et al. "Breast Milk and Gut Microbiota in African Mothers and Infants from an Area of High HIV Prevalence." PLoS ONE 8.11 (2013): e80299. NCBI PubMed. Web.
- 327. Herrmann, Mathias et al. "Staphylococcal Disease in Africa: Another Neglected 'Tropical' Disease." Future Microbiology 8.1 (2013): 17–26. NCBI PubMed. Web.
- 328. Kotloff, Karen L. et al. "Burden and Aetiology of Diarrhoeal Disease in Infants and Young Children in Developing Countries (the Global Enteric Multicenter Study, GEMS): A Prospective, Case-Control Study." Lancet 382.9888 (2013): 209–222. NCBI PubMed. Web.
- 329. Le Polain de Waroux, Olivier et al. "Timeliness and Completeness of Vaccination and Risk Factors for Low and Late Vaccine Uptake in Young Children Living in Rural Southern Tanzania." International Health 5.2 (2013): 139– 147. NCBI PubMed. Web.

- Letang, Emilio et al. "Immune Reconstitution Inflammatory Syndrome Associated with Kaposi Sarcoma: Higher Incidence and Mortality in Africa than in the UK." AIDS (London, England) 27.10 (2013): 1603–1613. NCBI PubMed. Web.
- 331. Manaca, Maria N. et al. "Population Characteristics of Young African Women Influencing Prenatal Exposure to DDT (Manhiça, Mozambique)." Environmental Science and Pollution Research International 20.5 (2013): 3472–3479. NCBI PubMed. Web.
- Moncunill, Gemma, Alfredo Mayor, Alfons Jimenez, et al. "Cytokine and Antibody Responses to Plasmodium Falciparum in Na?ve Individuals during a First Malaria Episode: Effect of Age and Malaria Exposure." PLoS ONE 8.2 (2013): n. pag. PubMed Central. Web. 12 Aug. 2014.
- 333. Moncunill, Gemma, Alfredo Mayor, Alfons Jiménez, Augusto Nhabomba, Laura Puyol, et al. "Cytokine and Antibody Responses to Plasmodium Falciparum in Naïve Individuals during a First Malaria Episode: Effect of Age and Malaria Exposure." PloS One 8.2 (2013): e55756. NCBI PubMed. Web.
- Moncunill, Gemma, Alfredo Mayor, Azucena Bardají, et al. "Cytokine Profiling in Immigrants with Clinical Malaria after Extended Periods of Interrupted Exposure to Plasmodium Falciparum." PLoS ONE 8.8 (2013): e73360. NCBI PubMed. Web.
- 335. Moncunill, Gemma, Alfredo Mayor, Alfons Jiménez, Augusto Nhabomba, Núria Casas-Vila, et al. "High Antibody Responses against Plasmodium Falciparum in Immigrants after Extended Periods of Interrupted Exposure to Malaria." PLoS ONE 8.8 (2013): e73624. NCBI PubMed. Web.
- Nair, Harish et al. "Global and Regional Burden of Hospital Admissions for Severe Acute Lower Respiratory Infections in Young Children in 2010: A Systematic Analysis." Lancet 381.9875 (2013): 1380–1390. NCBI PubMed. Web.
- Nasrin, Dilruba et al. "Health Care Seeking for Childhood Diarrhea in Developing Countries: Evidence from Seven Sites in Africa and Asia." The American Journal of Tropical Medicine and Hygiene 89.1 Suppl (2013): 3–12. NCBI PubMed. Web.
- 338. Nhampossa, Tacilta, Inacio Mandomando, et al. "Health Care Utilization and Attitudes Survey in Cases of Moderateto-Severe Diarrhea among Children Ages 0-59 Months in the District of Manhica, Southern Mozambique." The American Journal of Tropical Medicine and Hygiene 89.1 Suppl (2013): 41–48. NCBI PubMed. Web.
- 339. Nhampossa, Tacilta, Betuel Sigaúque, et al. "Severe Malnutrition among Children under the Age of 5 Years Admitted to a Rural District Hospital in Southern Mozambique." Public Health Nutrition 16.9 (2013): 1565– 1574. NCBI PubMed. Web.
- O'Callaghan-Gordo, Cristina et al. "Lower Respiratory Tract Infections Associated with Rhinovirus during Infancy and Increased Risk of Wheezing during Childhood. A Cohort Study." PLoS ONE 8.7 (2013): e69370. NCBI PubMed. Web.
- Ravinetto, Raffaella M. et al. "Challenges of Non-Commercial Multicentre North-South Collaborative Clinical Trials." Tropical Medicine & International Health 18.2 (2013): 237–241. NCBI PubMed. Web.
- 342. Rovira-Vallbona, Eduard et al. "VAR2CSA Signatures of High Plasmodium Falciparum Parasitemia in the Placenta." PLoS ONE 8.7 (2013): e69753. NCBI PubMed. Web.
- Sacoor, Charfudin et al. "Profile: Manhiça Health Research Centre (Manhiça HDSS)." International Journal of Epidemiology 42.5 (2013): 1309–1318. NCBI PubMed. Web.

- 344. Selva, Laura et al. "Detection of Streptococcus Pneumoniae and Haemophilus Influenzae Type B by Real-Time PCR from Dried Blood Spot Samples among Children with Pneumonia: A Useful Approach for Developing Countries." PLoS ONE 8.10 (2013): e76970. NCBI PubMed. Web.
- 345. Sigaúque, Betuel et al. "Haemophilus Influenzae Type B Disease among Children in Rural Mozambique: Impact of Vaccine Introduction." The Journal of Pediatrics 163.1 Suppl (2013): S19–24. NCBI PubMed. Web.
- 346. WorldWide Antimalarial Resistance Network (WWARN) DP Study Group. "The Effect of Dosing Regimens on the Antimalarial Efficacy of Dihydroartemisinin-Piperaquine: A Pooled Analysis of Individual Patient Data." PLoS Medicine 10.12 (2013): e1001564; discussion e1001564. NCBI PubMed. Web.
- 347. Wanyua, Sheru et al. "Profile: The Mbita Health and Demographic Surveillance System." International journal of epidemiology 42.6 (2013): 1678–1685. NCBI PubMed. Web.
- 348. Phan, Kongkea et al. "Arsenic Contamination in the Food Chain and Its Risk Assessment of Populations Residing in the Mekong River Basin of Cambodia." *Journal of hazardous materials* 262 (2013): 1064–1071. NCBI PubMed. Web.
- 349. Beguy, Donatien, Robert Ndugwa, and Caroline W Kabiru. "Entry into Motherhood among Adolescent Girls in Two Informal Settlements in Nairobi, Kenya." *Journal of Biosocial Science* 45.6 (2013): 721–742. NCBI PubMed. Web.
- 350. Bellows, Ben et al. "Increase in Facility-Based Deliveries Associated with a Maternal Health Voucher Programme in Informal Settlements in Nairobi, Kenya." Health Policy and Planning 28.2 (2013): 134–142. NCBI PubMed. Web.
- 351. Crichton, Joanna et al. "Emotional and Psychosocial Aspects of Menstrual Poverty in Resource-Poor Settings: A Qualitative Study of the Experiences of Adolescent Girls in an Informal Settlement in Nairobi." Health care for women international 34.10 (2013): 891–916. NCBI PubMed. Web.
- 352. Egondi, Thaddaeus, Caroline Kabiru, et al. "Adolescent Home-Leaving and the Transition to Adulthood: A Psychosocial and Behavioural Study in the Slums of Nairobi." International journal of behavioral development 37.4 (2013): 298–308. NCBI PubMed. Web.
- 353. Egondi, Thaddaeus, Catherine Kyobutungi, et al. "Community Perceptions of Air Pollution and Related Health Risks in Nairobi Slums." International Journal of Environmental Research and Public Health 10.10 (2013): 4851–4868. NCBI PubMed. Web.
- 354. Fotso, Jean Christophe et al. "Birth Spacing and Child Mortality: An Analysis of Prospective Data from the Nairobi Urban Health and Demographic Surveillance System." Journal of Biosocial Science 45.6 (2013): 779–798. NCBI PubMed. Web.
- 355. Izugbara, Chimaraoke et al. "Ethnicity, Livelihoods, Masculinity, and Health among Luo Men in the Slums of Nairobi, Kenya." Ethnicity & Health 18.5 (2013): 483–498. NCBI PubMed. Web.
- 356. Marston, Milly et al. "Predictors of Sexual Debut among Young Adolescents in Nairobi's Informal Settlements." International Perspectives on Sexual and Reproductive Health 39.1 (2013): 22–31. NCBI PubMed. Web.
- 357. Mberu, Blessing et al. "Bringing Sexual and Reproductive Health in the Urban Contexts to the Forefront of the Development Agenda: The Case for Prioritizing the Urban Poor." Maternal and Child Health Journal (2013): n. pag. NCBI PubMed. Web.
- 358. Mukiira, Carol, and Latifat Ibisomi. "Health Care Seeking Practices of Caregivers of Children under 5 with Diarrhea in Two Informal Settlements in Nairobi, Kenya." Journal of Child Health Care: For Professionals Working with Children in the Hospital and Community (2013): n. pag. NCBI PubMed. Web.

- Ngugi, Anthony K. et al. "Incidence of Convulsive Epilepsy in a Rural Area in Kenya." Epilepsia 54.8 (2013): 1352–1359. NCBI PubMed. Web.
- 360. Oti, Samuel O. et al. "The Magnitude of Diabetes and Its Association with Obesity in the Slums of Nairobi, Kenya: Results from a Cross-Sectional Survey." Tropical medicine & international health: TIM & IH 18.12 (2013): 1520–1530. NCBI PubMed. Web.
- Van de Vijver, Steven J. M. et al. "Prevalence, Awareness, Treatment and Control of Hypertension among Slum Dwellers in Nairobi, Kenya." Journal of Hypertension 31.5 (2013): 1018–1024. NCBI PubMed. Web.
- 362. Bisoffi, Zeno et al. "Should Malaria Treatment Be Guided by a Point of Care Rapid Test? A Threshold Approach to Malaria Management in Rural Burkina Faso." PLoS ONE 8.3 (2013): e58019. NCBI PubMed. Web.
- 363. Henriques, Gisela et al. "Artemisinin Resistance in Rodent Malaria--Mutation in the AP2 Adaptor -Chain Suggests Involvement of Endocytosis and Membrane Protein Trafficking." Malaria Journal 12 (2013): 118. NCBI PubMed. Web.
- 364. Huybregts, Lieven et al. "Prenatal Lipid-Based Nutrient Supplements Increase Cord Leptin Concentration in Pregnant Women from Rural Burkina Faso." The Journal of Nutrition 143.5 (2013): 576–583. NCBI PubMed. Web.
- 365. Kpoda, Noëllie W. et al. "[Schistosomiasis caused by Schistosoma mansoni in the Kou valley: Characterization of the transmission system and socioeconomic impact]." Comptes Rendus Biologies 336.5-6 (2013): 284–288. NCBI PubMed. Web.
- 366. Muhindo Mavoko, Hypolite et al. "Impact of Retreatment with an Artemisinin-Based Combination on Malaria Incidence and Its Potential Selection of Resistant Strains: Study Protocol for a Randomized Controlled Clinical Trial." Trials 14 (2013): 307. NCBI PubMed. Web.
- Paré Toe, Lea et al. "Could the Decision of Trial Participation Precede the Informed Consent Process? Evidence from Burkina Faso." PLoS ONE 8.11 (2013): e80800. NCBI PubMed. Web.
- Ravinetto, Raffaella M., Ambrose Talisuna, et al. "Challenges of Non-Commercial Multicentre North-South Collaborative Clinical Trials." Tropical Medicine & International Health 18.2 (2013): 237–241. NCBI PubMed. Web.
- 369. Ravinetto, Raffaella M., Koen Peeters Grietens, et al. "Medical Research in Socio-Economically Disadvantaged Communities: A Delicate Balance." British Medical Journal (2013): n. pag. Print.
- Tahita, Marc C., Halidou Tinto, et al. "Clinical Signs and Symptoms Cannot Reliably Predict Plasmodium Falciparum Malaria Infection in Pregnant Women Living in an Area of High Seasonal Transmission." Malaria Journal 12 (2013): 464. NCBI PubMed. Web.
- Tahita, Marc C., Judith M. Hübschen, et al. "Rubella Seroprevalence among Pregnant Women in Burkina Faso." BMC Infectious Diseases 13 (2013): 164. NCBI PubMed. Web.
- Tinto, Halidou et al. "Good Clinical Practice in Resource-Limited Settings: Translating Theory into Practice." The American Journal of Tropical Medicine and Hygiene 88.4 (2013): 608–613. NCBI PubMed. Web.
- 373. Ye, Yazoume et al. "Malaria Mortality Estimates: Need for Agreeable Approach." *Tropical Medicine & International Health* 18.2 (2013): 219–221. NCBI PubMed. Web.
- 374. Abagale, S. A. et al. "Biochemical Relevance of Sorghum and Millet Produced In the Kasena-Nankana Districts of Ghana, And Some of Their By-Products to Food, Nutrition, Health and Wealth of the People." International Journal of Chemistry and Materials Research 1.2 (2013): 14–24. Print.

- 375. Aborigo, Raymond A et al. "Cultural Imperatives and the Ethics of Verbal Autopsies in Rural Ghana." Global Health Action 6 (2013): 18570. Print.
- 376. Akweongo, Patricia et al. "The Economic Burden of Meningitis to Households in Kassena-Nankana District of Northern Ghana." PLoS ONE 8.11 (2013): e79880. NCBI PubMed. Web.
- 377. Anto, Francis. "Water Contact Activities and Prevalence of Schistosomiasis Infection among School-Age Children in Communities along an Irrigation Scheme in Rural Northern Ghana." Journal of Bacteriology & Parasitology 04.04 (2013): n. pag. CrossRef. Web. 17 Aug. 2014.
- 378. Awoonor-Williams, John Koku et al. "The Ghana Essential Health Interventions Program: A Plausibility Trial of the Impact of Health Systems Strengthening on Maternal & Child Survival." BMC Health Services Research 13 Suppl 2 (2013): S3. NCBI PubMed. Web.
- 379. Blank, Antje et al. "'Quality of Prenatal and Maternal Care: Bridging the Know-Do Gap' (QUALMAT Study): An Electronic Clinical Decision Support System for Rural Sub-Saharan Africa." BMC Medical Informatics and Decision Making 13 (2013): 44. NCBI PubMed. Web.
- 380. Dadzie, Samuel et al. "A Community-Wide Study of Malaria Reduction: Evaluating Efficacy and User-Acceptance of a Low-Cost Repellent in Northern Ghana." The American Journal of Tropical Medicine and Hygiene 88.2 (2013): 309–314. NCBI PubMed. Web.
- 381. Dalaba, Maxwell Ayindenaba et al. "Cost of Maternal Health Services in Selected Primary Care Centres in Ghana: A Step down Allocation Approach." BMC Health Services Research 13 (2013): 287. NCBI PubMed. Web.
- 382. Duysburgh, E. et al. "Quality of Antenatal and Childbirth Care in Selected Rural Health Facilities in Burkina Faso, Ghana and Tanzania: Similar Finding." Tropical medicine & international health: TM & IH 18.5 (2013): 534–547. NCBI PubMed. Web.
- 383. Engmann, C. et al. "Infant Illness Spanning the Antenatal to Early Neonatal Continuum in Rural Northern Ghana: Local Perceptions, Beliefs and Practices." Journal of Perinatology: Official Journal of the California Perinatal Association 33.6 (2013): 476–481. NCBI PubMed. Web.
- 384. Frimpong, Jemima A. et al. "The Complex Association of Health Insurance and Maternal Health Services in the Context of a Premium Exemption for Pregnant Women: A Case Study in Northern Ghana." Health Policy and Planning (2013): n. pag. NCBI PubMed. Web.
- 385. Hayden, Mary H. et al. "Knowledge, Attitudes, and Practices Related to Meningitis in Northern Ghana." The American Journal of Tropical Medicine and Hygiene 89.2 (2013): 265–270. NCBI PubMed. Web.
- 386. Kasasa, Simon et al. "Spatio-Temporal Malaria Transmission Patterns in Navrongo Demographic Surveillance Site, Northern Ghana." Malaria Journal 12 (2013): 63. NCBI PubMed. Web.
- 387. Menaca, Arantza et al. "Local Illness Concepts and Their Relevance for the Prevention and Control of Malaria during Pregnancy in Ghana, Kenya and Malawi: Findings from a Comparative Qualitative Study." Malaria Journal 12 (2013): 257. NCBI PubMed. Web.
- 388. Miotto, Olivo et al. "Multiple Populations of Artemisinin-Resistant Plasmodium Falciparum in Cambodia." Nature Genetics 45.6 (2013): 648–655. NCBI PubMed. Web.
- Oduro, Abraham R. et al. "Seroepidemiological and Parasitological Evaluation of the Heterogeneity of Malaria Infection in the Gambia." Malaria Journal 12 (2013): 222. NCBI PubMed. Web.

- 390. Pell, Christopher, Arantza Meñaca, Florence Were, et al. "Factors Affecting Antenatal Care Attendance: Results from Qualitative Studies in Ghana, Kenya and Malawi." PLoS ONE 8.1 (2013): e53747. NCBI PubMed. Web.
- 391. Pell, Christopher, Arantza Meñaca, Nana A. Afrah, et al. "Prevention and Management of Malaria during Pregnancy: Findings from a Comparative Qualitative Study in Ghana, Kenya and Malawi." Malaria Journal 12 (2013): 427. NCBI PubMed. Web.
- 392. Prytherch, Helen et al. "Motivation and Incentives of Rural Maternal and Neonatal Health Care Providers: A Comparison of Qualitative Findings from Burkina Faso, Ghana and Tanzania." BMC Health Services Research 13 (2013): 149. NCBI PubMed. Web.
- 393. Reidpath, Daniel. "Contextualizing Maternal Morbidity through Community Case Reviews." Journal of Women's Health Care 02.01 (2013): n. pag. CrossRef. Web. 17 Aug. 2014.
- 394. Welaga, Paul et al. "Why Are Babies Dying in the First Month after Birth? A 7-Year Study of Neonatal Mortality in Northern Ghana." PLoS ONE 8.3 (2013): e58924. NCBI PubMed Web.
- Ye, Yazoume et al. "Malaria Mortality Estimates: Need for Agreeable Approach." Tropical Medicine & International Health 18.2 (2013): 219–221. NCBI PubMed. Web.
- 396. Doctor, Henry Victor. "Variations in under-Five Mortality Estimates in Nigeria: Explanations and Implications for Program Monitoring and Evaluation." Maternal and child health journal 17.8 (2013): 1355–1358. NCBI PubMed. Web.
- 397. Atchessi, Nicole, Louis Niamba, and David Zombré. "Le Principe D'autonomie Individuelle et Le Respect de La Hiérarchie: La Situation Particulière Des Agents de Santé Participant à Une Recherche Au Burkina Faso." Bioethique online Etude de cas (2013): 1–4. Print.
- 398. Cofie, Patience et al. "Effects of Information, Education, and Communication Campaign on a Community-Based Health Insurance Scheme in Burkina Faso." Global Health Action 6 (2013): 20791. Print.
- 399. Dalaba, Maxwell Ayindenaba et al. "Cost of Maternal Health Services in Selected Primary Care Centres in Ghana: A Step down Allocation Approach." BMC health services research 13 (2013): 287. NCBI PubMed. Web.
- 400. De-Regil, Luz Maria et al. "Home Fortification of Foods with Multiple Micronutrient Powders for Health and Nutrition in Children under Two Years of Age (Review)." Evidence-Based Child Health 8.1 (2013): 112–201. NCBI PubMed. Web.
- 401. Duysburgh, E. et al. "Quality of Antenatal and Childbirth Care in Selected Rural Health Facilities in Burkina Faso, Ghana and Tanzania: Similar Finding." Tropical medicine & international health: TM & IH 18.5 (2013): 534–547. NCBI PubMed. Web.
- 402. Duysburgh, Els et al. "Counselling on and Women's Awareness of Pregnancy Danger Signs in Selected Rural Health Facilities in Burkina Faso, Ghana and Tanzania." Tropical medicine & international health: TM & IH 18.12 (2013): 1498–1509. NCBI PubMed. Web.
- 403. Fink, Günther et al. "Does Health Insurance Improve Health?: Evidence from a Randomized Community-Based Insurance Rollout in Rural Burkina Faso." Journal of Health Economics 32.6 (2013): 1043–1056. NCBI PubMed. Web.
- 404. Geiger, Carolin et al. "Declining Malaria Parasite Prevalence and Trends of Asymptomatic Parasitaemia in a Seasonal Transmission Setting in North-Western Burkina Faso between 2000 and 2009-2012." Malaria Journal 12 (2013): 27. NCBI PubMed. Web.

- 405. Grandgirard, Denis et al. "The Causative Pathogen Determines the Inflammatory Profile in Cerebrospinal Fluid and Outcome in Patients with Bacterial Meningitis." Mediators of Inflammation 2013 (2013): 312476. NCBI PubMed. Web.
- 406. Ouédraogo, Nobila et al. "Immunization Coverage in Young Children: A Study Nested into a Health and Demographic Surveillance System in Burkina Faso." Journal of Tropical Pediatrics 59.3 (2013): 187–194. NCBI PubMed. Web.
- 407. Prytherch, Helen et al. "Motivation and Incentives of Rural Maternal and Neonatal Health Care Providers: A Comparison of Qualitative Findings from Burkina Faso, Ghana and Tanzania." BMC health services research 13 (2013): 149. NCBI PubMed. Web.
- 408. Robyn, Paul Jacob et al. "Does Enrollment Status in Community-Based Insurance Lead to Poorer Quality of Care? Evidence from Burkina Faso." International Journal for Equity in Health 12 (2013): 31. NCBI PubMed. Web.
- Schoeps, A. et al. "Socio-Demographic Determinants of Timely Adherence to BCG, Penta3, Measles, and Complete Vaccination Schedule in Burkina Faso." Vaccine 32.1 (2013): 96–102. NCBI PubMed. Web.
- Onadja, Yentéma et al. "The Components of Self-Rated Health among Adults in Ouagadougou, Burkina Faso." Population Health Metrics 11.1 (2013): 15. NCBI PubMed. Web
- 411. Rossier, Clementine, Abdramane Soura, and Bruno Lankoande. "Migration et santé à la périphérie de Ouagadougou. Une première analyse exploratoire." REVUE QUETELET/QUETELET JOURNAL 1.1 (2013): 91–118. Print.
- Skiles, Martha P. et al. "Geographically Linking Population and Facility Surveys: Methodological Considerations." Population Health Metrics 11.1 (2013): 14. www.pophealthmetrics.com. Web. 10 Feb. 2014.
- 413. Soura, Abdramane, Stephanie Dos Santos, et al. "Accès à l'eau pour usage domestique dans les quartiers informels de Ouagadougou : variations saisonnières et réponses adaptatives." Climat & Développement (2013): 81–95. Print.
- 414. Soura, Abdramane, Gilles Pison, et al. "Religious Differences in Child Vaccination Rates in Urban Africa: Comparison of Population Surveillance Data from Ouagadougou, Burkina Faso." African Population Studies 27.2 (2013): 174. CrossRef. Web. 19 Aug. 2014.
- 415. Zeba, Augustin N. et al. "Association of High-Sensitivity C-Reactive Protein with Cardiometabolic Risk Factors and Micronutrient Deficiencies in Adults of Ouagadougou, Burkina Faso." The British Journal of Nutrition 109.7 (2013): 1266–1275. NCBI PubMed. Web.
- 416. Byass, Peter et al. "InterVA-4 as a Public Health Tool for Measuring HIV/AIDS Mortality: A Validation Study from Five African Countries." Global Health Action 6 (2013): 22448. Print.
- Chang, Larry W, David Serwadda, et al. "Combination Implementation for HIV Prevention: Moving from Clinical Trial Evidence to Population-Level Effects." The Lancet infectious diseases 13.1 (2013): 65–76. NCBI PubMed. Web.
- Chang, Larry W, Joseph Kagaayi, et al. "Cost Analyses of Peer Health Worker and mHealth Support Interventions for Improving AIDS Care in Rakai, Uganda." AIDS Care 25.5 (2013): 652–656. NCBI PubMed. Web.
- 419. Davis, Mitzie-Ann et al. "Male Circumcision Decreases High-Risk Human Papillomavirus Viral Load in Female Partners: A Randomized Trial in Rakai, Uganda." International Journal of Cancer. Journal International Du Cancer 133.5 (2013): 1247–1252. NCBI PubMed. Web.

- 420. Flach, Britta et al. "Differential Loss of Invariant Natural Killer T Cells and FoxP3+ Regulatory T Cells in HIV-1 Subtype A and Subtype D Infections." Journal of acquired immune deficiency syndromes (1999) 63.3 (2013): 289–293. NCBI PubMed. Web.
- 421. Gray, Ronald H, Maria J Wawer, and Godfrey Kigozi. "Programme Science Research on Medical Male Circumcision Scale-up in Sub-Saharan Africa." Sexually Transmitted Infections 89.5 (2013): 345–349. NCBI PubMed. Web
- Kiggundu, Valerian L. et al. "High Prevalence of Malaria Parasitemia and Anemia among Hospitalized Children in Rakai, Uganda." PloS One 8.12 (2013): e82455. NCBI PubMed. Web.
- 423. Kong, Xiangrong et al. "The Accuracy of Women's Reports of Their Partner's Male Circumcision Status in Rakai, Uganda." AIDS (London, England) 27.4 (2013): 662–664. NCBI PubMed. Web.
- Laeyendecker, Oliver et al. "Development of Methods for Cross-Sectional HIV Incidence Estimation in a Large, Community Randomized Trial." PloS One 8.11 (2013): e78818. NCBI PubMed. Web.
- Liu, Cindy M et al. "Male Circumcision Significantly Reduces Prevalence and Load of Genital Anaerobic Bacteria." mBio 4.2 (2013): e00076. NCBI PubMed. Web.
- Lutalo, Tom et al. "Effects of Hormonal Contraceptive Use on HIV Acquisition and Transmission among HIV-Discordant Couples." AIDS (London, England) 27 Suppl 1 (2013): S27–34. NCBI PubMed. Web.
- 427. McCallum, Debra Moehle et al. "What We Know about the Effectiveness of Farm Safety Day Programs and What We Need to Know." The Journal of Rural Health: Official Journal of the American Rural Health Association and the National Rural Health Care Association 29.1 (2013): 20–29. NCBI PubMed. Web.
- 428. Mullinax, Margo et al. "Community Understandings of and Responses to Gender Equality and Empowerment in Rakai, Uganda." Global Public Health 8.4 (2013): 465–478. NCBI PubMed. Web.
- 429. Mullis, Caroline E et al. "Differential Specificity of HIV Incidence Assays in HIV Subtypes A and D-Infected Individuals from Rakai, Uganda." AIDS research and human retroviruses 29.8 (2013): 1146–1150. NCBI PubMed. Web.
- Pilgrim, Nanlesta A et al. "Sexual Coercion among Adolescent Women in Rakai, Uganda: Does Family Structure Matter?" Journal of Interpersonal Violence 28.6 (2013): 1289–1313. NCBI PubMed. Web.
- Redd, Andrew D et al. "Liver Stiffness Is Associated with Monocyte Activation in HIV-Infected Ugandans without Viral Hepatitis." AIDS research and human retroviruses 29.7 (2013): 1026–1030. NCBI PubMed. Web.
- Rositch, Anne F et al. "Frequent Detection of HPV before and after Initiation of Antiretroviral Therapy among HIV/ HSV-2 Co-Infected Women in Uganda." PLoS ONE 8.1 (2013): e55383. NCBI PubMed. Web.
- 433. Santelli, John S et al. "Behavioral, Biological, and Demographic Risk and Protective Factors for New HIV Infections among Youth in Rakai, Uganda." Journal of Acquired Immune Deficiency Syndromes 63.3 (2013): 393–400. NCBI PubMed. Web.
- Ssekubugu, Robert et al. "Contextual Barriers and Motivators to Adult Male Medical Circumcision in Rakai, Uganda." Qualitative health research 23.6 (2013): 795–804. NCBI PubMed. Web.

- 435. Tobian, Aaron A R, Godfrey Kigozi, et al. "Herpes Simplex Virus Type-2 Assay Specificity and Male Circumcision to Reduce Herpes Simplex Virus Type-2 Acquisition." AIDS (London, England) 27.1 (2013): 147–149. NCBI PubMed. Web.
- 436. Tobian, Aaron A R, Mary K Grabowski, Godfrey Kigozi, Patti E Gravitt, et al. "High-Risk Human Papillomavirus Prevalence Is Associated with HIV Infection among Heterosexual Men in Rakai, Uganda." Sexually Transmitted Infections 89.2 (2013): 122–127. NCBI PubMed. Web.
- 437. Tobian, Aaron A R, Mary K Grabowski, Godfrey Kigozi, Andrew D Redd, et al. "Human Papillomavirus Clearance among Males Is Associated with HIV Acquisition and Increased Dendritic Cell Density in the Foreskin." The Journal of infectious diseases 207.11 (2013): 1713–1722. NCBI PubMed. Web.
- 438. Wilson, Lauren E et al. "Male Circumcision Reduces Penile High-Risk Human Papillomavirus Viral Load in a Randomised Clinical Trial in Rakai, Uganda." Sexually transmitted infections 89.3 (2013): 262–266. NCBI PubMed. Web.
- 439. Zaba, Basia et al. "Effect of HIV Infection on Pregnancy-Related Mortality in Sub-Saharan Africa: Secondary Analyses of Pooled Community-Based Data from the Network for Analysing Longitudinal Population-Based HIV/AIDS Data on Africa (ALPHA)." Lancet 381.9879 (2013): 1763–1771. NCBI PubMed. Web.
- 440. Bando, Hironori et al. "Intra-Specific Diversity of Serratia Marcescens in Anopheles Mosquito Midgut Defines Plasmodium Transmission Capacity." Scientific Reports 3 (2013): 1641. NCBI PubMed. Web.
- 441. Bisoffi, Zeno et al. "Should Malaria Treatment Be Guided by a Point of Care Rapid Test? A Threshold Approach to Malaria Management in Rural Burkina Faso." PloS One 8.3 (2013): e58019. NCBI PubMed. Web.
- Churcher, Thomas S. et al. "Predicting Mosquito Infection from Plasmodium Falciparum Gametocyte Density and Estimating the Reservoir of Infection." eLife 2 (2013): e00626. NCBI PubMed. Web.
- 443. Gansane, Adama et al. "Variation in Haematological Parameters in Children Less than Five Years of Age with Asymptomatic Plasmodium Infection: Implication for Malaria Field Studies." Memórias Do Instituto Oswaldo Cruz 108.5 (2013): 644–650. Print.
- 444. Gnémé, Awa et al. "Equivalent Susceptibility of Anopheles Gambiae M and S Molecular Forms and Anopheles Arabiensis to Plasmodium Falciparum Infection in Burkina Faso." Malaria Journal 12.1 (2013): 204. www.malariajournal. com. Web. 23 Aug. 2014.
- 445. Ouédraogo, Alphonse, Alfred B. Tiono, Désiré Kargougou, et al. "A Phase 1b Randomized, Controlled, Double-Blinded Dosage-Escalation Trial to Evaluate the Safety, Reactogenicity and Immunogenicity of an Adenovirus Type 35 Based Circumsporozoite Malaria Vaccine in Burkinabe Healthy Adults 18 to 45 Years of Age." PloS One 8.11 (2013): e78679. NCBI PubMed. Web.
- 446. Ouédraogo, Alphonse, Alfred B. Tiono, Amidou Diarra, et al. "Malaria Morbidity in High and Seasonal Malaria Transmission Area of Burkina Faso." PloS One 8.1 (2013): e50036. NCBI PubMed. Web.
- 447. Sanon, Souleymane et al. "In Vitro Antiplasmodial and Cytotoxic Properties of Some Medicinal Plants from Western Burkina Faso." African Journal of Laboratory Medicine 2.1 (2013): 7 pages.
- Schrot-Sanyan, Stéphanie et al. "Malaria Relevance and Diagnosis in Febrile Burkina Faso Travellers: A Prospective Study." Malaria Journal 12.1 (2013): 270. NCBI PubMed. Web.

- 449. Tiono, Alfred B et al. "A Controlled, Parallel, Cluster-Randomized Trial of Community-Wide Screening and Treatment of Asymptomatic Carriers of Plasmodium Falciparum in Burkina Faso." Malaria Journal 12 (2013): 79. NCBI PubMed. Web.
- 450. Tiono, Alfred B, Sodiomon B Sirima, and Kamal Hamed. "Fulani Show Decreased Susceptibility to Plasmodium Falciparum Infection versus Mossi: Data from a Community-Wide Screening and Treatment of Asymptomatic Carriers in Burkina Faso." Malaria Journal 12 (2013): 163. NCBI PubMed. Web.
- 451. Tiono, Alfred B., Moussa W. Guelbeogo, et al. "Dynamics of Malaria Transmission and Susceptibility to Clinical Malaria Episodes Following Treatment of Plasmodium Falciparum Asymptomatic Carriers: Results of a Cluster-Randomized Study of Community-Wide Screening and Treatment, and a Parallel Entomology Study." BMC infectious diseases 13 (2013): 535. NCBI PubMed. Web.
- 452. Tiono, Alfred B., Amidou Diarra, et al. "Low Specificity of a Malaria Rapid Diagnostic Test During an Integrated Community Case Management Trial." Infectious Diseases and Therapy 2.1 (2013): 27–36. CrossRef. Web. 23 Aug. 2014.
- 453. Tiono, Alfred B., Alphonse Ouédraogo, et al. "Treatment of Asymptomatic Carriers of Plasmodium Falciparum with Artemether–Lumefantrine: Impact on the Prevalence of Anemia." Infectious Diseases and Therapy 2.1 (2013): 47–58. CrossRef. Web. 23 Aug. 2014.
- 454. Fürst, Thomas, Kigbafori D. Silué, et al. "Patients Routinely Report More Symptoms to Experienced Field Enumerators than Physicians in Rural Côte d'Ivoire." The American Journal of Tropical Medicine and Hygiene (2013): 13-0122. www.ajtmh.org. Web. 10 Feb. 2014.
- 455. Fürst, Thomas, Mamadou Ouattara, et al. "Scope and Limits of an Anamnestic Questionnaire in a Control-Induced Low-Endemicity Helminthiasis Setting in South-Central Côte d'Ivoire." PloS one 8.6 (2013): e64380. NCBI PubMed. Web.
- 456. Kouadio, M'Bra KD et al. "Local Concepts of Anemia-Related Illnesses and Public Health Implications in the Taabo Health Demographic Surveillance System, Côte d'Ivoire." BMC Hematology 13.1 (2013): 1–15. link. springer.com. Web. 10 Feb. 2014.
- 457. Righetti, Aurélie A, Lukas G Adiossan, et al. "Dynamics of Anemia in Relation to Parasitic Infections, Micronutrient Status, and Increasing Age in South-Central Côte d'Ivoire." The Journal of infectious diseases 207.10 (2013): 1604–1615. NCBI PubMed. Web.
- 458. Righetti, Aurélie A, Rita Wegmüller, et al. "Effects of Inflammation and Plasmodium Falciparum Infection on Soluble Transferrin Receptor and Plasma Ferritin Concentration in Different Age Groups: A Prospective Longitudinal Study in Côte d'Ivoire." The American journal of clinical nutrition 97.6 (2013): 1364–1374. NCBI PubMed. Web.
- 459. Schmidlin, Thomas et al. "Effects of Hygiene and Defecation Behavior on Helminths and Intestinal Protozoa Infections in Taabo, Côte d'Ivoire." PLoS ONE 8.6 (2013): e65722. PLoS Journals. Web. 10 Feb. 2014.
- 460. Hirve, Siddhivinayak et al. "Delivering Sprinkles Plus through the Integrated Child Development Services (ICDS) to Reduce Anemia in Pre-School Children in India." The Indian Journal of Pediatrics 80.12 (2013): 990–995. NCBI PubMed. Web.
- 461. Hirve, Siddhivinayak et al. "'In General, How Do You Feel Today?' Self-Rated Health in the Context of Aging in India." (2013): n. pag. www.diva-portal.org. Web. 8 May 2014.

- 462. Braithwaite, V, S F A Bruggraber, and A Prentice. "Intact Fibroblast Growth Factor 23 and Fragments in Plasma from Gambian Children." Osteoporosis international: a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA 24.3 (2013): 1121–1124. NCBI PubMed. Web.
- 463. Braithwaite, Vickie, John M Pettifor, and Ann Prentice. "Novel SLC34A3 Mutation Causing Hereditary Hypophosphataemic Rickets with Hypercalciuria in a Gambian Family." Bone 53.1 (2013): 216–220. NCBI PubMed Web.
- 464. Courtiol, Alexandre et al. "The Demographic Transition Influences Variance in Fitness and Selection on Height and BMI in Rural Gambia." Current biology: CB 23.10 (2013): 884–889. NCBI PubMed. Web.
- 465. Cox, Sharon E. et al. "Randomised Controlled Trial of Weekly Chloroquine to Re-Establish Normal Erythron Iron Flux and Haemoglobin Recovery in Postmalarial Anaemia." BMJ open 3.7 (2013): n. pag. NCBI PubMed. Web.
- 466. Dominguez-Salas, Paula et al. "DNA Methylation Potential: Dietary Intake and Blood Concentrations of One-Carbon Metabolites and Cofactors in Rural African Women." The American Journal of Clinical Nutrition 97.6 (2013): 1217–1227. NCBI PubMed. Web.
- 467. Drasar, Emma R. et al. "The Effect of Duffy Antigen Receptor for Chemokines on Severity in Sickle Cell Disease." Haematologica 98.8 (2013): e87–89. NCBI PubMed. Web.
- 468. Fulford, A. J. C. et al. "Disproportionate Early Fetal Growth Predicts Postnatal Thymic Size in Humans." Journal of Developmental Origins of Health and Disease 4.03 (2013): 223–231. Cambridge Journals Online. Web.
- 469. Goldberg, Gail R. et al. "Randomized, Placebo-Controlled, Calcium Supplementation Trial in Pregnant Gambian Women Accustomed to a Low Calcium Intake: Effects on Maternal Blood Pressure and Infant Growth." The American Journal of Clinical Nutrition 98.4 (2013): 972–982. NCBI PubMed. Web.
- 470. Horikoshi, Momoko et al. "New Loci Associated with Birth Weight Identify Genetic Links between Intrauterine Growth and Adult Height and Metabolism." Nature Genetics 45.1 (2013): 76–82. NCBI PubMed. Web.
- 471. Jarjou, Landing M. A. et al. "Unexpected Long-Term Effects of Calcium Supplementation in Pregnancy on Maternal Bone Outcomes in Women with a Low Calcium Intake: A Follow-up Study." The American Journal of Clinical Nutrition 98.3 (2013): 723–730. NCBI PubMed. Web.
- 472. Koehler, Anson V. et al. "Genetic Characterization of Selected Parasites from People with Histories of Gastrointestinal Disorders Using a Mutation Scanning-Coupled Approach." *Electrophoresis* 34.12 (2013): 1720– 1728. NCBI PubMed. Web.
- 473. McDermid, Joann M. et al. "Host Iron Redistribution as a Risk Factor for Incident Tuberculosis in HIV Infection: An 11-Year Retrospective Cohort Study." BMC infectious diseases 13 (2013): 48. NCBI PubMed. Web.
- 474. Mendy, Maimuna et al. "Observational Study of Vaccine Efficacy 24 Years after the Start of Hepatitis B Vaccination in Two Gambian Villages: No Need for a Booster Dose." PloS One 8.3 (2013): e58029. NCBI PubMed. Web.
- Prentice, Andrew M et al. "Microbes and the Malnourished Child." Science Translational Medicine 5.180 (2013): 180fs11. NCBI PubMed. Web.

- 476. Prentice, Andrew M., Kate A. Ward, et al. "Critical Windows for Nutritional Interventions against Stunting." The American Journal of Clinical Nutrition 97.5 (2013): 911– 918. NCBI PubMed. Web.
- 477. Prentice, Andrew M., Landing M. Jarjou, et al. "Reply to JL Leroy et Al." *The American Journal of Clinical Nutrition* 98.3 (2013): 856–857. Print.
- Prentice, Andrew M., Sophie E. Moore, and Anthony J. Fulford. "Growth Faltering in Low-Income Countries."
 World Review of Nutrition and Dietetics 106 (2013): 90–99.
 NCBI PubMed. Web.
- 479. Prentice, Andrew M., Hans Verhoef, and Carla Cerami. "Iron Fortification and Malaria Risk in Children." JAMA: the journal of the American Medical Association 310.9 (2013): 914–915. NCBI PubMed. Web.
- 480. Prentice, Ann. "Nutritional Rickets around the World."

 The Journal of steroid biochemistry and molecular biology
 136 (2013): 201–206. NCBI PubMed. Web.
- 481. Reiches, Meredith W. et al. "The Adolescent Transition under Energetic Stress Body Composition Tradeoffs among Adolescent Women in The Gambia." Evolution, Medicine, and Public Health 2013.1 (2013): 75–85. emph. oxfordjournals.org. Web. 23 Aug. 2014.
- 482. Richards, Anna A. et al. "Birth Weight, Season of Birth and Postnatal Growth Do Not Predict Levels of Systemic Inflammation in Gambian Adults." American Journal of Human Biology: The Official Journal of the Human Biology Council 25.4 (2013): 457–464. NCBI PubMed. Web.
- 483. Risk, Rachel et al. "Rational Prescribing in Paediatrics in a Resource-Limited Setting." Archives of Disease in Childhood 98.7 (2013): 503–509. NCBI PubMed. Web.
- 484. Sawo, Y. et al. "Bone Mineral Changes after Lactation in Gambian Women Accustomed to a Low Calcium Intake."

 European Journal of Clinical Nutrition 67.11 (2013): 1142–1146. NCBI PubMed. Web.
- 485. Schoenmakers, I. et al. "Acute Response to Oral Calcium Loading in Pregnant and Lactating Women with a Low Calcium Intake: A Pilot Study." Osteoporosis international: a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA 24.8 (2013): 2301–2308. NCBI PubMed. Web.

- 486. Silver, Matt et al. "Pathways-Driven Sparse Regression Identifies Pathways and Genes Associated with High-Density Lipoprotein Cholesterol in Two Asian Cohorts." PLoS genetics 9.11 (2013): e1003939. NCBI PubMed. Web.
- 487. Van der Merwe, Liandré F et al. "Long-Chain PUFA Supplementation in Rural African Infants: A Randomized Controlled Trial of Effects on Gut Integrity, Growth, and Cognitive Development." The American Journal of Clinical Nutrition 97.1 (2013): 45–57. NCBI PubMed. Web.
- 488. Greenhill, Andrew, Valentine Siba, and Paul Horwood. "Reply to 'apropos "Evaluation of Serological Diagnostic Tests for Typhoid Fever in Papua New Guinea Using a Composite Reference Standard."" Clinical and Vaccine Immunology: CVI 20.2 (2013): 318. NCBI PubMed. Web.
- 489. Horwood, Paul et al. "The Threat of Chikungunya in Oceania." Western Pacific surveillance and response journal: WPSAR 4.2 (2013): 8–10. NCBI PubMed. Web.
- Horwood, Paul F. et al. "Outbreak of Chikungunya Virus Infection, Vanimo, Papua New Guinea." Emerging Infectious Diseases 19.9 (2013): 1535–1538. NCBI PubMed. Web.
- 491. Jonduo, Marinjho et al. "Surveillance of Avian Influenza Viruses in Papua New Guinean Poultry, June 2011 to April 2012." Western Pacific Surveillance and Response Journal: WPSAR 4.4 (2013): 11–15. NCBI PubMed. Web.
- 492. Members of the Western Pacific Region Global Influenza Surveillance Response System et al. "Seasonal Influenza Vaccine Policies, Recommendations and Use in the World Health Organization's Western Pacific Region." Western Pacific Surveillance and Response 4.3 (2013): 51–59. NCBI PubMed. Web.
- 493. Soli, Kevin W. et al. "Evaluation of Colorimetric Detection Methods for Shigella, Salmonella, and Vibrio Cholerae by Loop-Mediated Isothermal Amplification." Diagnostic Microbiology and Infectious Disease 77.4 (2013): 321–323. NCBI PubMed. Web.





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