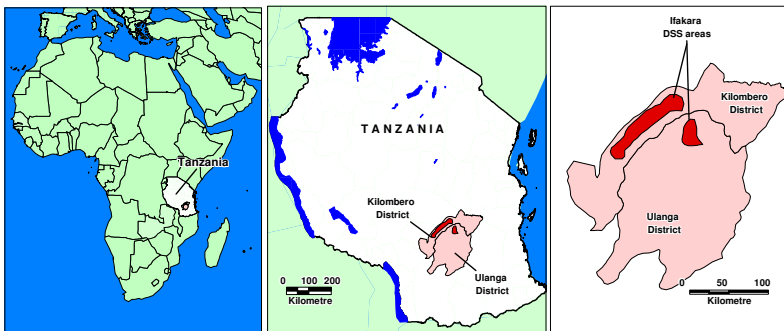


IFAKARA HDSS, TANZANIA

Site Map



Brief Description

The Ifakara Demographic Surveillance site is located in southern Tanzania in parts of two districts, Kilombero and Ulanga both in Morogoro region (latitude 8. 00 to 8. 35S, longitude 35. 58 to 36. 48E). It covers a rural population of about 99,000 people in 22,000 households. The site was incepted in September 1996. Baseline census was conducted between September and December 1996. Since then every household is visited every 4 months and data recorded on pregnancies, births, deaths, in and out migrations. The main strategy of the HDSS is to meet the goals and for sustainability.

Objectives

- To collect accurate information on health and survival;
- To facilitate use of this information to improve health at district and national levels; and
- To provide a framework for population-based health research relevant to local health priorities and needs.
- To evaluate health tools and interventions

Priority Research Areas

- Malaria
- Burden of disease
- Health and poverty
- Monitoring and Evaluation Studies
- HIV/AIDS and TB
- Health Systems
- Integration of informatics research in surveillance systems

Completed Key Projects

Project Name	Funder	Grant Period
Community Effectiveness of Intermittent Preventive Treatment delivered through the Expanded Programme of Immunisation for Malaria and Anaemia Control in Tanzanian Infants (IPTi)	Bill and Melinda Gates Foundation (BMGF)	2004 – 2009
Evaluate safety and efficacy of malaria candidate vaccine RTSs (PMAL-3)	GSK, MVI	2005 - 2009
The Interdisciplinary Monitoring Project for Antimalarial Combination Therapy	BMGF	2006 – 2009
International Monitoring Project for Anti Malaria Combination Therapy	USAID	2003-2007
Anti-larval measures for malaria control in Africa: Pilot studies of urban malaria control in Dar es Salaam, Tanzania	EHP/USAID	2006-2008
Spatial analysis of impact of insecticide-treated nets for malaria control in Tanzania	Swiss National Science Foundation	2005 - 2007
Understanding and Improving Access to Effective Malaria Treatment in Rural Tanzania (ACCESS Programme)	NOVARTIS FOUNDATION	2003-2008
Behavioral and ecological determinants of gene flow in African malaria mosquitoes	NWO, The Netherlands	2005-2009
Mosquito abatement for malaria control in Dar es Salaam	Wellcome Trust	2005-2009
Identify research priorities with policy makers in areas of health financing and human resource (SHIELD)	EU and IDRC	2005 – 2008
Operational research aimed at better	Novartis Foundation	2004 - 2008

understanding and improving access to effective malaria treatment and care for all malaria episodes in children and adults (ACCESS).	for Sustainable Development (NFSD)	
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Ongoing Key Projects (Up to 10)

Project Name	Funder	Grant Period
Replacing DDT with Spatial Repellents for Vector Control	Bill and Melinda Gated Foundation (BMGF)	2008 - 2012
MALARIA –O55 – “A phase III, double blind (observer blind), randomised, controlled multicentre study to evaluate in infants and children, the efficacy of the RTS,S/AS01E candidate vaccine against malaria disease caused by P falciparum infection, across diverse malaria transmission settings in Africa”	GSK, PATH, MVI	2009 – 2012
Improving newborn survival in rural southern Tanzania: a study to evaluate the impact and cost of a scale-able package of interventions at community level with health system strengthening.	Save The Children Fund	2008 – 2010
Morbidity Monitoring and Characterization of Malaria Burden in children under five who are permanent resident in Bagamoyo study area – Bagamoyo District.	MVI, NMCP, IHI	2009 – 2010
INDEPTH Effectiveness and Safety Studies of Anti-malarial drugs in Africa (INESS)	INDEPTH Network	2009 - 2012
Encouraging Safe Sexual Practices Among Youth Using Rewards: A Randomised trial in the Kilombero /Ulanga Districts. Conditional Cash Transfer (CCT) Project	World Bank (Research Committee and Spanish Strategic Impact Evaluation Fund) and Hewlett Foundation/Population Research Bureau	2008 - 2010
Strategies for Health Insurance and Equity Health Policy Monitoring & Evaluation (SHIELD)	LSTHM	2008 - 2009
Severe disease in children Package (SDC): Improving care for severely ill children in first-level health facilities in Tanzania.	PMI (United States Presidential Malaria Initiative)	2008 - 2009
Monitoring and Evaluation of the National ITN delivery systems		2005-
Scaling-up of Maternal, Newborn and Child Health Interventions for Sustainable Health Impact (EMPOWER)	Comic Relief	2007 - 2012
Accelerating Progress on Millennium	Doris Duke Charitable	2009 - 2014

Development Goals by Exchanging Health System Innovations between Tanzania and Ghana (EMPOWER Plus)	Foundation	
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Planned Projects

Project Name	Funder	Grant Period
Water and sanitation-related disease	Stanford University	2009 - 2010
HIV/AIDS Project (M&E)	NUFFIC	2009 – 2011
HIV/AIDS Project (Health System).. ART rollout	RFE - PriceWaterhouse Coopers	2009 – 2010
ART impact on population	Wellcome Trust through INDEPTH Network	2009-2013

Funders

No.	Donor Institution Name
1	Ministry of Health and Social Welfare, Tanzania
2	Swiss Tropical Institute (STI)
3	Swiss Agency for Development and Cooperation (SDC)
4	Medicines for Malaria Venture (MMV)
5	Malaria Vaccine Initiatives/Glaxo Smith Kline
6	Novartis Foundation for Sustainable Development (NFSD)
7	Bill and Melinda Gates Foundation (BMGF)
8	US – Centre for Disease Control and Prevention (CDC)
9	United States Agency for International Development (USAID)
10	Population Services International (PSI)
11	International Development Research Centre (IDRC)
12	London School of Hygiene and Tropical Medicine (LSHTM)
13	World Bank (WB)
14	World Health Organization (WHO)
15	Global Fund for HIV/AIDS, TB and Malaria
16	United Nations Children's Fund (UNICEF)
17	Doris Duke Charitable Foundation (DDCF)
18	UBS Optimus Foundation
19	International Labor Organization (ILO)
20	Comic Relief, UK

Collaborators

No.	Collaborating Institution Name
1	Columbia University in the City of New York, US
2	Witwatersrand University
3	INDEPTH Network
4	Wageningen University and Research Centre, Netherlands
5	University of Durham, UK
6	Herbert Kairuki Memorial Hospital (HKMH), Tanzania

7	University of Dodoma (UDOM), Tanzania
8	Hospital Clinic Provincial Barcelona, Spain
9	Navrongo Health Research Centre, Ghana
10	Manhica Health Research Centre, Mozambique
11	East African Network for Monitoring Malaria Treatment
12	Genome Institute of Singapore (GIS)
13	African Medical Research Foundation (AMREF)

Human Resource at IHI sites (Senior Staff Members)

CATEGORY	Number of Staff
Directorate	1
Computing and Medical Informatics	7
Library and documentation	2
Biomedical sciences	3
Demographic and Inpatient surveillance systems	4
Intervention studies	3
Health Systems research	2
Social Marketing and Health Promotion	2
Finance and Administration	5
Sociology	3
Entomology	7
Clinicians	14
Biostatistics	3
Economics	1
General Bachelors Degree holders	28
Total	85

Key publications

Abdulla S, Sagara I, Bormann S, D'Alessandro U, Gonzalez R, Hamel M, Ogutu B, Martensson A, Lyimo J, Maiga H, Sasi P, Nahum A, Bassat Q, Juma E, Otieno L, Bjorkman A, Beck HP, Andriano K, cousin M, Lefevre G, Ubben D and Premji Z. **Efficacy and safety of artemether-lumefantrine dispersible tablets compared with crushed commercial tablets in African infants and children with uncomplicated malaria: a randomized, single-blind, multicentre trial.** Lancet 2008; 372: 1819-27.

Kara Hanson, Rose Nathan, Tanya Marchant, Hadji Mponda, caroline Jones, Jane Bruce, Godlove Stephen, Jo Mulligan, Hassan Mshinda, Joanna Armstrong Schellenberg . **Vouchers for scaling up insecticide-treated nets in Tanzania. Methods for monitoring and evaluation of a national health system intervention.** BMC Public Health 2008; 8, 205.

Tanya marchant; Rose Nathan; Caroline Jones; Hadji Mponda; Jane Bruce; Yovitha Sedekia; Joanna Schellenberg; Hassan Mshinda and Kara Hanson. **Individual, facility and policy level influences on national coverage estimates for intermittent preventive treatment of malaria in pregnancy in Tanzania.** *Malaria journal* 2008, 7:260

Adiel K Mushi; Joanna Schellenberg; Mwifadhi Mrisho; Fatuma Manzi; Conrad Mbuya; Haji Mponda; Hassan Mshinda; Marcel Tanner; Pedro Alonso; Robert Pool and David Schellenberg. **Development of behaviour change communication strategy for a vaccination-linked malaria control tool in southern Tanzania.** *Malaria Journal* 2008, 7:191

Honorati Masanja; Don de Savigny; Paul Smithson; Joanna Schellenberg; Theopista John; Conrad Mbuya; Gabriel Upunda; Ties Boerma; Cesar Victora; Tom Smith and Hassan Mshinda. **Child survival gains in Tanzania: analysis of data from demographic and health surveys.** *Lancet* 2008; 371: 1276-83

Manuel W Hetzel; Brigit Obrist; Christian Lengeler; June J Msechu; Rose Nathan; Angel Dillip; Ahmed M Makemba; Christipher Mshana; Alexander Schelze and Hassan Mshinda. **Obstacles to prompt and effective malaria treatment lead to low community-coverage in two rural districts of Tanzania.** *BMC Public Health* 2008, 8:317 doi:10.1186/1471-2458-8-317

Fatuma Manzi; Joanna Schellenberg; Yuna Hamis; Adiel K. Mushi; Kizito Shirima; Alex mwita; Azma Simba; Neema Rusimbamayila; Mary Kitambi; Marcel Tanner; Pedro Alonso; Hassan Mshinda; David Schellenberg. **Intermittent preventive treatment for malaria and anaemia control in Tanzanian Infant; the development and implementation of a public health strategy** *Translations of the Royal Society of Tropical Medicine and Hygiene* (2008)103,79-86

Elizeus Kahigwa, Montse Garcia, Max Petzold, Peter Olumese, Abdullah Ali, Anders Björkman, **Influence of Rapid Malaria Diagnostic Tests on Treatment and Health Outcome in Fever Patients, Zanzibar—A Crossover Validation Study**, *PLoS Med* 6(4): e1000070. doi:10.1371/journal.pmed.1000070

Issa N. Lyimo and Heather M. Ferguson, **Ecological and evolutionary determinants of host species choice in mosquito vectors**, *TREPAR*-817; doi:10.1016/j.pt.2009.01.005

Mwifadhi Mrisho, Brigit Obrist, Joanna Armstrong Schellenberg, Rachel A. Haws, Adiel K. Mushi, Hassan Mshinda, Marcel Tanner and David Schellenberg, **The use of antenatal and postnatal care: perspectives and experiences of women and health care providers in rural southern Tanzania**, *BMC Pregnancy and Childbirth* 2009, 9:10 doi:10.1186/1471-2393-9-10

Mwinyi I. Msellem, Andreas Ma^ortensson, Guida Rotllant, Achuyt Bhattarai, Johan Strömberg, Nicholas D Walter, Thomas Lyimo, Jacek Skarbinski, Emmy Metta, Elizeus Kahigwa, Brendan Flannery, Scott F Dowell, Salim Abdulla & S Patrick Kachur, **Why first-level health workers fail to follow guidelines for managing severe disease in children in the Coast Region, the United Republic of Tanzania**, *Bull World Health Organ* 2009;87:99–107 | doi:10.2471/BLT.08.050740

Nicodemus J. Govella, Prosper P. Chaki, Yvonne Geissbuhler, Khadija Kannady, Fredros Okumu, J. Derek Charlwood, Robert A. Anderson, Gerry F. Killeen, **A new tent trap for sampling exophagic**

and endophagic members of the *Anopheles gambiae* complex, *Malaria Journal* 2009, **8**:157
doi:10.1186/1475-2875-8-157

Godfrey Mbaruku, Jos van Roosmalen, Iluminata Kimondo, Filigona Bilango, Staffan Bergström,
Perinatal audit using the 3-delays model in western Tanzania, *International Journal of
Gynecology and Obstetrics* 106 (2009) 85–88, doi:10.1016/j.ijgo.2009.04.008

Kara Hanson, Tanya Marchant, Rose Nathan, Hadji Mponda, Caroline Jones, Jane Bruce, Hassan
Mshinda, Joanna Armstrong Schellenberg, **Household ownership and use of insecticide treated
nets among target groups after implementation of a national voucher programme in the
United Republic of Tanzania: plausibility study using three annual cross sectional household
surveys**, *BMJ* 2009;338:b2434, doi:10.1136/bmj.b2434

Minimum Datasets

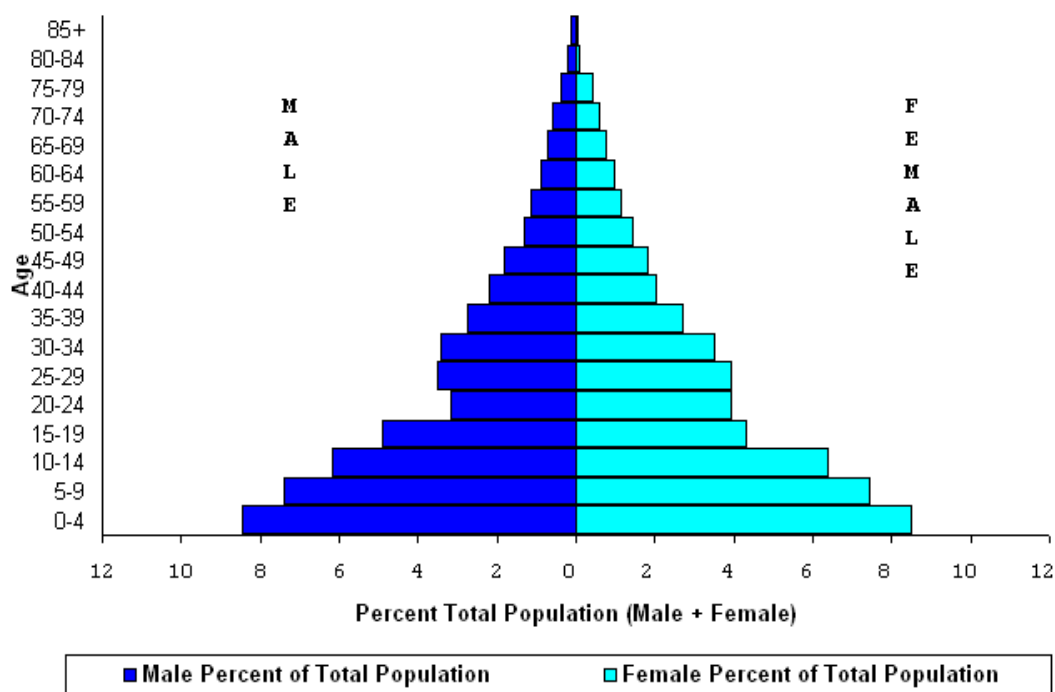
Mortality								
Person Years				Deaths			Basic vital statistics	
Age	Both sexes	Male	Female	Both sexes	Male	Female	Rates	
<1	3006	1525	1481	191	95	96	Crude birth rate	36.7
1-4	12360	6160	6200	115	55	60	Total fertility rate	5.0
5-9	13358	6694	6663	31	16	15	Crude death rate	9.3
10-14	11502	5660	5842	15	7	8	Neonatal mortality rate	29.3
15-19	8415	4478	3937	19	7	12	Post neonatal mortality rate	29.0
20-24	6296	2804	3492	17	9	8	Infant mortality	60.9
25-29	6727	3095	3632	23	8	15	Child mortality rate(1-4)	44.7
30-34	6308	3124	3185	32	12	20	Underfive mortality	23.9
35-39	5087	2508	2578	46	28	18	Crude rate of natural increase	2.7
40-44	3903	2038	1865	36	18	18	In-migration rate	99.9
45-49	3253	1617	1636	23	11	12	Outmigration rate	120.5
50-54	2518	1217	1301	26	12	14	Growth rate (Annual)	8.6
55-59	2012	971	1041	29	19	10		
60-64	1652	794	857	37	15	22		
65-69	1343	641	702	43	21	22		
70-74	1012	484	529	45	22	23		
75-79	742	353	389	48	23	25		
80-84	289	156	133	23	17	6		
85+	240	141	100	41	22	19		

Total	90023	44460	4563	840	417	423
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Fertility [TFR=5.02](#)

Age	Women	Births (both)	Male	Female
15-19	3937	602	280	322
20-24	3492	916	474	442
25-29	3632	746	387	359
30-34	3185	563	270	293
35-39	2578	346	147	199
40-44	1865	107	54	53
45-49	1636	24	15	9

Population Pyramid-2007



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