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THE 2ND IFAKARA ANNUAL SCIENTIFIC CONFERENCE

"KNOWLEDGE TRANSLATION FOR HEALTH IMPACT"

Homeland - Ifakara Town, Morogoro Region, Tanzania

23-25 AUGUST

CONFERENCE PROGRAMME

IASC 2023

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"KNOWLEDGE TRANSLATION FOR HEALTH IMPACT"
DAY 1

Time	Event	Responsible
07:00-08:00	Registration	Organizing committee
	OPENING CEREMONY Moderator: Rukiyah Mohammad & Rose Philipo	
08:00-08:15	A welcome statement, acknowledging the guests and inviting the CED.	Dr. Ally Olotu
08:15-08:30	Overview of IHI history in Research and Introducing of the keynote speakers.	Dr. Honorati Masanja
08:30-08:45	Keynote address I: Generating knowledge for evidence-based care to improve health outcomes.	Dr. Ntuli Kapologwe
08:45-09:00	Keynote address II: Knowledge translation for health impact.	Prof. Patrick Kachur
09:00-10:00	Health break (Tea)	All
	SCIENTIFIC SESSION I: ORAL PRESENTATION Moderator: Dr. Mwifadhi Mrisho & Gumi Abdallah	
10:00-12:15	<ol style="list-style-type: none"> Impact of a novel digital clinical decision support algorithm (e-POCT+) in malaria management cascade in children aged 2 months to 14 Years in Tanzania, results from a cluster randomized controlled trial. Presented by: Dr. Lameck Luwanda Lung ultrasound using a handheld device to diagnose heart failure and pulmonary diseases in rural Tanzania: A prospective observational study. Presented by: Dr. Andrew Katende Emodepside for Trichuris trichiura and Hookworm Infection. Presented by: Dr. Emmanuel Mrimi Baseline malaria immunity in malaria pre-exposed volunteers inversely correlates with single-controlled human malaria infection-induced antibody-mediated functional immunity. Presented by: Dr. Maximillian Mpina HPV prevalence and genotype distribution among women living with HIV in rural Tanzania: Prospective study from the Kilombero and Ulanga Antiretroviral Cohort. Presented by: Dorcas Mnzava 	

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	<p>6. Identifying the most effective treatment strategies to control arterial hypertension in sub-Saharan Africa: A randomized controlled trial. Presented by: Jamali Siru</p> <p>7. Advanced HIV Disease and Mortality among children in sub-Saharan Africa: Trend analysis from the Kilombero and Ulanga Antiretroviral Cohort. Presented by: Dr. Lilian Moshi</p> <p>8. Efforts to increase access to rabies post-exposure prophylaxis in Tanzania: IHI rabies research initiatives. Presented by: Joel Chagalucha (Virtually)</p> <p>9. Perceptions of illness management challenges among patients with Type 2 diabetes in Kenya and Tanzania during COVID-19: a qualitative study. Presented by: Dr. Sally Mtenga (Virtually)</p> <p>(8 Minutes Presentation, 7 Minutes Q&A)</p>	
12:15-13:00	Health Break (Lunch)	
	SCIENTIFIC SESSION II: ORAL PRESENTATION Moderator: Dr. Annet Tumbo & Issa Mshani	
13:00-14:15	<p>1. Pilot deployment of skilled and Community Health Care workers administered COVID-19 AgRDT testing in Tanzania. Presented by: Dr. Mwifadhi Mrisho</p> <p>2. Comparison of Gravid Aedes Traps and Autocidal Gravid Ovitrap to BG-Sentinel Traps for Dengue Vector Surveillance in Tanzania. Presented by: Jane Machege</p> <p>3. Characterization of a new laboratory colony of Anopheles funestus mosquitoes established in Ifakara, Tanzania. Presented by: Emmanuel Hape</p> <p>4. Establishing a low-cost community-based vector surveillance program that can be utilized for monitoring key entomological indicators of mosquito-borne diseases. Presented by: Naomi Urrio.</p>	

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	<p>5. Field durability monitoring of pyrethroid plus piperonyl-butoxide insecticide-treated nets under operational settings in Bagamoyo Tanzania: Preliminary findings. Presented by: Emmanuel Mbuba</p> <p>6. Pharmacokinetics and cardiac safety of clofazimine in children with rifampicin-resistant tuberculosis. Presented by: Dr. Ali Mohamed</p> <p>(8 Minutes Presentation, 7 Minutes Q&A)</p>	
SCIENTIFIC SESSION III: ORAL PRESENTATION Moderator: Issa Mshani & Emmanuel Mbuba		
14:15-16:30	<p>1. Occupational exposure to malaria, leishmaniasis and arbovirus vectors in endemic regions. Presented by: Dr. Daniel Msellemu</p> <p>2. CDC light traps underestimate the protective efficacy of an indoor spatial repellent against bites from wild <i>Anopheles arabiensis</i> mosquitoes in Tanzania. Presented by: Alphonse Assenga</p> <p>3. The MTego trap, a potential tool for monitoring malaria and arbovirus vectors. Presented by: Masudi Suleiman</p> <p>4. Current and future opportunities of autodissemination of pyriproxyfen approach for malaria vector control in urban and rural Africa. Presented by: Augustino Mmbaga</p> <p>5. Residual efficacy of Sylando® 240SC at 250mg/m² on mud, wood and cement measured by a modified tunnel test, in Tanzania. Presented by: Umami Kibondo</p> <p>6. Prevent Before They Emerge: Community Insights on Larval Source Management for Controlling Malaria Vectors, <i>Anopheles funestus</i> in Multi-purpose Breeding Habitats. Presented by: Najat Kahamba</p> <p>7. Malaria rapid diagnostic tests reliably detect asymptomatic <i>Plasmodium falciparum</i> in</p>	

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	<p>school-aged children that are infectious to mosquitoes. Presented by: Dr. Mgeni Tambwe</p> <p>8. Developing a critical mass of data scientists and mathematical modelers to support National Malaria Control/Elimination Programs. Presented by: Dr. Samson Kiware</p> <p>9. Effects of vegetation densities on the performance of attractive targeted sugar baits (ATSBs) for malaria vector control: A semi-field study. Presented by: Letus Muyaga</p> <p>(8 Minutes Presentation, 7 Minutes Q&A)</p>	
16:30-17:00	Coffee/Exhibition	
	SCIENTIFIC SESSION IV: SPEED TALK Moderators: Dr. Emmanuel Kaindoa	
17:00-18:00	<ol style="list-style-type: none"> 1. Trends and drivers of unmet need for family planning in currently married Tanzanian women between 1999 and 2016. Presented by Abdon Rwabilimbo 2. Tanzania country-wide variations in the risk of human exposure to malaria vector bites. Presented by: Praise Michael 3. Lethal response of dengue vector (<i>Aedes aegypti</i>) to the plant extracts of <i>Dioscorea sansibariensis</i>. Presented by: Winnie Lema 4. The influence of community-defined land use plans and de facto land use practices on the abundance and distribution of large wild mammals that provide mosquitoes with blood sources in a community-governed wildlife management area in Southern Tanzania. Presented by: Lily Duggan 5. Origins and ongoing evolution of the ILUMA Wildlife Management Area in southern Tanzania as a community-managed institution for rural development through wildlife conservation. Presented by: Lucia Tarimo 	

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	6. Tackling the epidemic of non-communicable diseases in sub-Saharan Africa: The Ifakara platform for service, training, and research. Presented by: Dr. Andrew Katende	
END OF DAY ONE		
19:30-10:00	Dinner with invited delegates	Invitees Only



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Time	Event	Responsible
07:30-08:00	Registration	Organizing committee
08:00-08:15	Keynote address III: Bridging the gap in knowledge translation of biomedical research findings to foster health impact in Africa.	Prof. Julie Makani
PLENARY SESSION I: THE CURRENT IHI IMAGE Moderators: Dr. Zawadi Mboma		
08:15-08:25	Environmental Health and Ecological Sciences (EHES) remarks	Dr. Emmanuel Kaindoa
08:25-08:35	Interventions and Clinical Trials (ICT) remarks	Dr. Ally Olotu
08:35-08:45	Health Systems, Impact Evaluation and Policy (HSIEP) remarks	Dr. Mwaka Kakolwa
08:45-08:55	Training and Capacity Building remarks	Dr. Dickson Lwetoijera
09:05-09:45	Health Break (Tea)	All
09:45-10:45	New Strategic Plan	Dr. Honorati Masanja
PLENARY SESSION III: Malaria Elimination Agenda: What Are the Challenges, What Is Left to Achieve. Moderators: Dr. Anneth Tumbo & Dr. Ally Olotu		
10:45-12:45	Round table discussion	Dr. Fredros Okumu, Dr. Salim Abdulla, Dr. Dunstan Bishanga, Dr. Grace Mwangoka & Prof. Patrick Kachur
12:45-13:30	Health break (Lunch)	
SCIENTIFIC SESSION IV: SPEED TALK Moderators: Dr. Abdallah Mkopi & Dr. Fatuma Manzi		
15:00-15:30	<ol style="list-style-type: none"> Efficacy of ReMoa Tri adulticide against African malaria vectors: Susceptible <i>Anopheles gambiae</i> and resistant <i>Anopheles arabiensis</i>. Presented by: Dismas Kamande Field evaluation of the novel One Step Malaria Pf and Pf/Pv rapid diagnostic tests and the proportion of HRP-2 gene deletion identified on samples collected in the Pwani region, Tanzania. Presented by: Zena Emmanuel A Placebo Controlled, Double-Blind, 3-Arm Study to Investigate Safety, Tolerability, Pharmacokinetics and Efficacy of Single and Multiple Doses of 20 mg/kg Oxantel Pamoate in Adults Infected with <i>Trichuris trichiura</i>. Presented by: Michael Mihayo 	

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	<p>4. Prospective assessment of viral rebound and associated risk factors in people living with HIV after achieving viral suppression in rural Tanzania. Presented by: Amina Nyuri</p> <p>5. Understanding socio-demographic factors and reasons associated with COVID-19 vaccination hesitance among adults in Tanzania: a mixed-method approach. Presented by: Hajiran Msuya</p> <p>6. Fighting against malaria is everyone's concern: A randomized control trial assessing the role of incentives for encouraging local communities to record and upload mosquito sounds using MozzWear application. Presented by: Winfrida Mponzi</p> <p>7. Assessing the Risk of Mosquito-Borne Diseases (MBDs) along the TAZARA Railway Line. Presented by: Alfred Simfukwe</p> <p>8. Competitive Co-existence and Inferred Host Preferences of Anopheles arabiensis and Anopheles quadriannulatus Across a Gradient of Fully Domesticated to Fully Pristine Ecosystems in Southern Tanzania. Presented by: Katrina Walsh</p> <p>9. Changing trends in the proportional contribution of Anopheles vector species to malaria transmission in East and Southern Africa: Implications for vector control. Presented by: Betwel Msugupakulya</p> <p>10. Advancing Research in Environmental Health and Ecological Science for Health Impact: Leveraging GIS and RS for Knowledge Translation. Presented by: Johannes Muhimbula</p> <p style="text-align: center;">(3 minutes per Participant)</p>	
SCIENTIFIC SESSION V: ORAL PRESENTATION Moderators: Dr. Dickson Wilson & Dr. Daniel Msellemu		
15:30-17:00	<p>1. Advancing Malaria Prevention through Monoclonal Antibodies: A Collaborative Effort to Eliminate the Global Burden of Malaria. Presented by: Said Jongo</p> <p>2. Multi-stage Malaria Vaccine Consortium. Presented by: Nsajigwa Misidai</p>	

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	<p>3. Relationships between Biological Age, Distance from Aquatic Habitats, and Pyrethroid Resistance Status of <i>Anopheles funestus</i> Mosquitoes in South-Eastern Tanzania. Presented by: Polius Pinda</p> <p>4. Stigma-directed services (StigzHealth) to improve 'linkage to care' for people living with HIV in rural Tanzania: study protocol and preliminary results for a nested pre-post implementation study within the Kilombero and Ulanga Antiretroviral Cohort. Presented by: Bernard Kivuma</p> <p>5. Applications of State Space Population dynamics models in Understanding the Ecology of <i>Anopheles funestus</i> in Tanzania. Presented by: Dr. Halfan Ngowo</p> <p>6. Community perception of the auto-dissemination of pyriproxyfen for controlling malaria vectors in south-eastern Tanzania. Presented by: Felista Tarimo</p>	
	<p>7. Identification of malaria vulnerable populations in Tanzania: An exploratory analysis of DHS data to guide malaria intervention in children. Presented by: Dr. Mwaka Kakolwa</p>	
Break (5mins)		
	<p>8. Household randomised-control trial of Insecticide-treated eave nets and window screens on malaria prevalence and mosquito density in unimproved houses in Chalinze district, Tanzania. Presented by: Olukayode Odufuwa</p> <p>9. Life expectancy of <i>Anopheles funestus</i> is double that of <i>Anopheles arabiensis</i> in southeast Tanzania based on mark-release and recapture. Presented by: Watson Ntabaliba</p> <p>10. Contribution of mCCM intervention to malaria case management for areas with limited access to healthcare services at Katavi region, 2023. Presented by: Benson Mringo</p>	

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	<p>11. Field studies on epidemiologically important aspects of the reproductive biology of female <i>Anopheles funestus</i> in south-eastern Tanzania. Presented by: Mohamed Jumanne</p> <p>12. Investigating the survival and age structure of malaria vectors using infrared reflectance spectroscopy and machine learning in an area with high insecticide bed-net coverage in Tanzania. Presented by: Doreen Siria</p> <p>13. Thresholds of detection of malaria parasites using a combined approach of mid-infrared spectroscopy and machine learning. Presented by: Issa Mshani</p> <p>14. Using Machine Learning and Infrared Spectroscopy for Rapid Assessment of Key Entomological and Parasitological Indicators of Malaria Transmission. Presented by: Emmanuel Mwanga</p> <p>(8 Minutes Presentation, 7 Minutes Q&A)</p>	
17:00-17:30	Coffee/Poster	
	END OF DAY TWO	

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DAY 3

Time	Event	Responsible
07:00-07:30	Registration.	Organizing committee
PLENARY SESSION II MENTORSHIP AND CAREER DEVELOPMENT PLAN Moderators: Dr. Halfan Ngowo & Dr. Mgeni Mohamed		
08:00-09:30	Fund Acquisition and Maintenance.	Dr. Fredros Okumu
	Being a Medical Entomologist.	Dr. Dickson Wilson
	Being a Clinical Trial Epidemiologist.	Dr. Salim Abdullah
09:30-10:00	Health break	All
SCIENTIFIC SESSION VI: ORAL PRESENTATION Moderators: Dr. Daniel Msellemu & Dr. Omary Hassan		
10:00-12:15	<ol style="list-style-type: none"> The subtle art of herding cats: Cultivating cadres of expert leaders who are individually independent but nevertheless collaborate and learn together as effective teams. Presented by: Prof. Gerry Killen Association between Body Size and Fecundity of Anopheles funestus Mosquitoes in Different Ecological Zones of Tanzania. Presented by: Ismail Nambunga Advancing Onchocerciasis Surveillance through Mid-Infrared Spectroscopy and Artificial Intelligence. Presented by: Idrisa Mchola Prevalence and Underlying Causes of Anemia in School-Aged Children in Kilombero Valley, Tanzania. Presented by: Frank Jackson Perspectives of African Stakeholders on Gene Drives Technologies for Malaria Control and Elimination. Presented by: Lina Finda (Virtually) Small-scale field evaluation of transfluthrin-treated eave ribbons and sandals for the control of malaria vectors in rural Tanzania. Presented by: Arnold Mmbando 	

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	<p>7. Gender-related experiences and recommendations among men and women scientists working in vector control in Tanzania. Presented by: Ampuriire Patience</p> <p>8. Scalable camera traps for measuring the attractive ness of targeted sugar baits to control malaria and dengue mosquitoes. Presented by: Felicana Meza</p> <p>9. Semi-field evaluation of aquatic predators for the control of <i>Anopheles funestus</i> in rural south-eastern Tanzania. Presented by: Herieth Mahenge</p> <p>10. Phenotypic and molecular insecticide resistance monitoring of <i>Anopheles funestus</i> mosquitoes to guide malaria control efforts in Tanzania. Presented by: Joel Odera (Virtually)</p> <p>11. Sterilized <i>Anopheles funestus</i> can auto-disseminate sufficient pyriproxyfen to the breeding habitat under semi-field settings. Presented by: Hamisi Kunambi</p> <p>(8 Minutes Presentation, 7 Minutes Q&A)</p>	
12:15-13:00	Health break (Lunch) & Exhibitions	
SCIENTIFIC SESSION V: SPEED TALK		
Moderators: Ummi Kibondo & Olukayode Odufuwa		
13:00-14:30	<p>1. Coping strategies employed by diabetes type 2 patients in managing their illness during COVID-19 in Tanzania. Presented by: Irene Mashasi</p> <p>2. Maternal high intake of vitamin B12 and folate reduces the risk of adverse birth outcomes among HIV-negative pregnant women in Dar es Salaam, Tanzania. Presented by: Dr. Omar Lweno</p> <p>3. Sauti ya Vijana (SYV, The Voice of Youth): Experience in Pilot and Scale-Up of a Mental Health and Life Skills Intervention for</p>	

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	<p>Adolescents and Young Adults Living with HIV Across Four Regions of Tanzania. Presented by: Getrude Mollel</p> <p>4. Peripartum cardiomyopathy in rural Tanzania: An observational study. Presented by: Evance Mahundi</p> <p>5. The impact of human neutrophil functions on Mycobacterium tuberculosis viability and in vitro granuloma formation. Presented by: Veronica Misana</p> <p>6. Evaluation of vaccines for emerging diseases and policy changes: Case of BiMVaCo1 Study. Presented by: Dr. Mohamed Rashid</p> <p>7. Establishment of the Blood-stage CHMI Model with <i>P. falciparum</i> in Tanzania. Presented by: Omar Hassan</p> <p>8. Piperaquine Phosphate (POP) program and the expected impact. Presented by: Dr. Ali Ahmad</p> <p>9. Genotype-informed versus empiric management of viraemia in children and adolescents taking antiretroviral therapy: a multi-site open-label randomised trial in Lesotho and Tanzania (GIVE MOVE trial). Presented by: Jennifer Brown</p> <p>10. Child Health and Infection with Low Density (CHILD) malaria. Presented by: Nicolaus Paul</p> <p>11. Impact of livestock management on malaria transmission risks in rural Tanzania. Presented by: Yohana Mwalugelo</p>	
	SCIENTIFIC SESSION VI: ORAL PRESENTATION Moderators: Dr. Halfan Ngowo & Betwel Msugupakulya	
14:30-16:30	<p>1. The Use of Insecticide Treated Eave Ribbons as a Protection Tool Against Populations of</p>	

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	<p>Mosquitoes That Transmit Malaria and Dengue. Presented by: Ruth Shirima</p> <p>2. Efficacy of Double net (DN-Mini) trap for sampling host-seeking Anopheles mosquitoes in malaria-endemic southern Tanzania. Presented by: Alex Limwagu</p> <p>3. Acceptability and uptake of oral HIV self-testing among rural community members in Tanzania: A pilot study. Presented by: Dr. Abdallah Mkopi</p> <p>4. Implementation of Electronic Data Capture in a Large-Scale Pragmatic Trial in Low resource setting: Experience from the TIMCI study. Presented by: Samwel Lwambura</p> <p>5. Patient's willingness to pay for the improved community health insurance and medications packages in Tanzania. Presented by: Kassimu Tani</p> <p>6. Assessing the readiness and Feasibility of Larval Source Management in Rural Districts in Tanzania. Presented by: Dr. Irene Moshi (Hybrid)</p> <p>7. Feasibility and community perception of insecticide-treated eave nets and window screens in Tanzania. Presented by: Fadhila Kihwele</p> <p>(8 Minutes Presentation, 7 Minutes Q&A)</p>	
SCIENTIFIC SESSION VI: ORAL PRESENTATION Moderators: Bilal Aziz & Dr. Mohamed Rashid		
16:30-17:30	<p>1. Collection, transportation and pyrethroid resistance phenotype assessments of Anopheles gambiae complex mosquitoes from pristine wilderness areas in southern Tanzania. Presented by: Deogratius Kavishe</p>	

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	<p>2. Development, feasibility and potential effectiveness of community-based continuous mass dog vaccination delivery strategies: lessons for optimization and replication. Presented by: Christian Tetteh</p> <p>3. Assessment of twenty-four hours biting patterns and human exposure risk to bites of Anopheles mosquitoes in South-eastern Tanzania. Presented by: Muwonge Mukisa</p> <p>4. Challenges of Proper Disposal of Old Long-Lasting Insecticidal Nets and its Alternative Uses in Rural South-Eastern Tanzania. Presented by: Sheila Msangi</p> <p>5. Integrating contact tracing and whole-genome sequencing to track the elimination of dog-mediated rabies: an observational and genomic study. Presented by: Kennedy Lushasi</p> <p>6. Is it a malaria-transmitting mosquito or not? A comparison of supervised machine learning algorithms for the identification of malaria transmitting mosquitoes using wingbeat frequency. Presented by: Dickson Msaky</p>	
	END OF DAY THREE	
17:30-18:30	Football Match	Dar & Bagamoyo vs Ifakara
19:00-22:00	Barbeque night	All