

AGENDA

Anticipating future challenges in malaria vector control

Objectives of the 19th Annual RBM VCWG Meeting

The annual meeting offers a platform for the malaria vector control community to share the latest best practices and research relevant to current and future malaria vector control operations. The activities of the dedicated Work Streams, which focus on their work plans, are complemented by plenary sessions and panel discussions. During the meeting, the Work Stream Co-Leaders and the Co-Chairs of the Working Group ratify the main projects, and present the next steps and way forward. The work plan activities are funded by Partners, and coordinated by the Work Stream Co-Leads and the Co-Chairs of the Working Group.

Co-Chairs: Corine Ngufor & Justin McBeath
 & El Hadji Amadou Niang (newly elected co-chair)
 Coordinator: Konstantina Boutsika
 Technical & administrative support: Sunghea Park
 Rapporteur: Aqib Ali

Exhibition Fair on Monday 15 April & Tuesday 16 April (Concourse)

Sunday 14 April 2024		
17:30 - 19:30 Concourse	Arrivals, registrations	
Monday 15 April 2024		
7:00 - 8:30 Concourse	Arrivals, registrations	
Session 1 MH2 & MH3	Plenary: introductions, objectives, key updates	Chair: Justin McBeath, VCWG
8:30 - 8:40	Welcome, new elected co-chair announced, introductions of participants	Justin McBeath, VCWG El Hadji Amadou Niang, VCWG
8:40 - 8:50	Overview of agenda and objectives for VCWG-19	Corine Ngufor, VCWG
8:50 - 8:55 8:55 - 9:00	Opening Remarks Prof. Claude Mambo Muvunyi - Director General, Rwanda Biomedical Center Dr Michael Charles - CEO, RBM Partnership to End Malaria	

9:00 – 9:15	Progress towards malaria elimination in Rwanda	Emmanuel Hakizimana, Director Vector Control Unit, RBC/Malaria and Other Parasitic Diseases Control Division
9:15 – 9:45 Concourse	Group photo & morning break / fair-trade coffee, selection of teas, fruit juices, snacks	
9:45 – 10:00	Update from RBM Partnership to End Malaria	Daddi Wayessa, RBM Partnership to End Malaria
10:00 – 10:30	Updates on malaria vector surveillance and control	Seth Irish, WHO GMP
10:30 – 11:00	WHO vector control products prequalification updates and implementation roadmap for the new ITN guideline	Geraldine Foster, WHO- PQT/VCP
11:00 – 11:20	Global Fund update on vector control financing	Kate Kolaczinski, The Global Fund
11:20 – 11:40	PMI malaria vector control policy and strategy updates	Sarah Zohdy, PMI
11:40 – 12:00	Unitaid's vector control portfolio: an overview and update	Kenny Onasanya & Rachel Evans, Unitaid
12:00- 12:30	Q&A	Moderator: El Hadji Amadou Niang, VCWG
12:30 – 13:00 Concourse	E-poster presentations (5 minutes per talk and 10 min discussion) <ul style="list-style-type: none"> • SMC and ITN campaign integration: lessons learnt from Kwara • Role of electronic media in increasing insecticide treated nets (ITN) hanging rate and use during mass campaign: case study of Adamawa State, northeast Nigeria • Quantitative assessment of residual malaria: exposure to biting by malaria vectors in Koulikoro, Mali • Quantification of <i>Anopheles</i> daily sugar feeding rates in Siaya county, western Kenya using Attractive Sugar Baits 	Emmanuel Obi, CRS Chinedu Chukwu, MSH Immo Kleinschmidt, LSHTM Jackline Kosgei, KEMRI (Presented by Eric Ochomo, Seline Omondi)
13:00 – 14:00 Larder Restaurant	Buffet lunch	
Session 2 MH2 & MH3	Work stream meetings	

Work Steam 1 - Enhancing the Impact of Core Interventions Co-Leads: Mary Kante & Allan Were		
14:00 – 14:15	Welcome participants, meeting overview (WS1)	Allan Were, Mary Kante
Global Insecticide Resistance (IR) and Vector Control (VC) trends and their implications for new tools, with a focus on impact and resistance monitoring Team 2 Moderators: Christen Fornadel, IVCC and Mulamuli Mpofu, Chemonics		
14:15 – 15:15	Panel presentations and discussion: Field experience with new tools (PBO nets, newer IRS, chlorfenapyr), with a focus on impact and resistance monitoring. <ul style="list-style-type: none"> • Overview of the global IR and VC trends studies, and mention of VC in humanitarian emergencies • PMI Evolve resistance monitoring overview with emphasis on clothianidin and chlorfenapyr • Indications of differential efficacy of chlorfenapyr-based ITNs between sites • Results from field evaluations of IRS and PBO nets – Ethiopia and Sierra Leone evaluations • The impact of next-generation dual-active ingredient ITN deployment on insecticide resistance in malaria vectors during a three-year cluster-randomized controlled trial in Tanzania Q&A panel discussion with speakers	Sylvester Coleman, LSTM Joseph Chabi, Abt Associates Rosemary Lees, LSTM Emily Hilton, PATH Louisa Messenger, University of Nevada
15:00 – 15:30 Concourse	Afternoon break / fair-trade coffee, selection of teas, fruit juices, snacks	
Optimizing VC resources – Implications of Global IR and VC trends for national planning, global funding, prioritization, and domestic financing Team 4 Moderators: Sylvester Coleman-LSTM, El Hadji Amadou Niang-UCAD		
15:15 – 16:05	Panel presentations and discussion: Ghana <ul style="list-style-type: none"> • Experiences in optimizing VC resources <ul style="list-style-type: none"> ▪ Ghana NMEP ▪ Zambia NMEP • Cameroon: harnessing domestic financing and community resilience strategies in sustaining Integrated Vector Management in Africa 	Otubea Owusu Akrofi, NMEP Ghana Ketty Ndhlovu, NMEP Zambia Prisca Ngo Tappa, Littoral Regional Fund for Health Promotion Cameroon
From Policy to Practice: approaches on engaging private sector in vector control Team 3 Moderators: Jessica Rockwood-IPHA, Sam Asiedu-AGAMal, Andrew Saibu-IVCC		
16:05-16:55	The role of the private sector in Uganda's vector control value chain analysis. Clarifying Qs (1-2) from the audience. (15 mins)	Robert Mugerwa, Uganda NMCD

	Panel discussion: New funding streams and local implementation capacity for IRS through Public-Private Partnership (25 mins) Q&A from the audience (10 mins)	Samuel Asare-Bediako, Benso Oil Palm Plantation Wycliff Odude, Pilgrim Africa Otubea Owusu Akrofi, Ghana NMEP
Improving the effectiveness of ITN campaigns: net design, frequency of distribution, and digitizing campaigns Team 1 Moderators: Ketty Ndhlovu-NMEP Zambia, Chrispin Williams-NMCP Liberia, D. Levi Hinneh-NMCP Liberia		
16:55 – 17:40	<ul style="list-style-type: none"> • Meta-analysis on the entomological effects of differentially treated ITNs in a multi-site experimental hut study in sub-Saharan Africa • Fewer Bites for Your Buck: Changing the Frequency of ITN Mass Campaigns for Optimal Cost-Effectiveness • Updates from the 2024 Campaign Digitalization Meeting Q&A from audience	Janneke Snetselaar, IVCC Andrew Glover, Imperial College Giovanni Dusabe, AMP
Addressing non-biological threats: ITN quality, access and use, durability/replacement Moderators: Mary Kante, ECC, Allan Were, MSH		
17:40 – 18:00	<p>Theme: Addressing non-biological threats: ITN quality, access and use, durability/replacement</p> <ul style="list-style-type: none"> • Deploying an LQAS-based method to collect ITN post-distribution data in resource-constrained elimination settings: the experience of Honduras and progress on implementation in other countries • Raising the Floor Update Presentation Q&A from audience	Lucia Fernandez, CHAI [Remote presentation] Tara Seethaler, CHAI
18:00 – 18:05	Wrap up and next steps	Mary Kante, Allan Were
Tuesday 16 April 2024 MH2 & MH3		
Work Steam 2 - Expanding the Vector Control Toolbox Co-Leads: Derric Nimmo & Eric Ochomo		
08:00 – 08:10	Work stream updates	Derric Nimmo Eric Ochomo
Task Team 2: Innovations in vector control and vector surveillance Spatial repellents: research updates and general discussion Facilitators: Tullu Bukhari-ICIPE, Anna Trett-CHAI		

08:10 – 08:25	Spatial repellents: roadmap to global recommendation of spatial repellents for public health use	Nicole Achee, University of Notre Dame
08:25 – 09:25	<ul style="list-style-type: none"> • Spatial repellents contribute to the reduction in malaria incidence in an area of western Kenya characterized by high malaria transmission, insecticide resistance and universal coverage of LLINs • Exposure patterns of humans to malaria vectors in western Kenya and implications for malaria control – • Trials of Improved Practices to assess communities' initial reaction to a Spatial Repellent product in Busia Country, western Kenya • Non-inferiority of SC Johnson Guardian™ a 1-year duration spatial repellent (SR) product to Mosquito Shield™, the first-in-class SR 	Eric Ochomo, KEMRI Julius Odera, KEMRI Moureen Ekisa, KEMRI Kyeba Swai, IHI/Swiss TPH
09:25 – 09:50	Expert Panel Shifting the conventional paradigm on evaluating interventions	Lenson Kariuki, NMCP Kenya Steve Harvey, JHU Ingrid Chen, UCSF Nicole Achee, University of Notre Dame
10:00 – 10:30 Concourse	Morning break / fair-trade coffee, selection of teas, fruit juices, snacks	
Task Team 2: Innovations in vector control and vector surveillance Advances in new tools – Genetic control tools for malaria control Facilitators: Tullu Bukhari-ICIPE, Anna Trett-CHAI		
09:50 – 10:20	<ul style="list-style-type: none"> • An update on the development of gene drive mosquitoes for malaria control • From lab towards field: progress in the development of gene drive mosquitoes for vector control • Some thoughts on strategies for field trials of gene drive mosquitoes for malaria control 	Michael Santos, Foundation for the National Institutes of Health Samantha O'Loughlin, Imperial College London John Connolly, Target Malaria
Task Team 2: Innovations in vector control and vector surveillance Advances in new tools – House modification and vector proofing Facilitators: Tullu Bukhari-ICIPE, Anna Trett-CHAI		
10:20 – 10:40	<ul style="list-style-type: none"> • Evaluation of passive cooling options and vector proofing for indoor heat reduction and mosquito control in western Kenya 	Bernard Abongo, KEMRI

	<ul style="list-style-type: none"> Household randomised-control trial of insecticide treated eave nets and window screens on malaria prevalence and mosquito density in unimproved house in Chalinze district, Tanzania 	Olukayo Odufuwa, IHI/Swiss TPH
Task Team 1: Larval Source Management Facilitator: Elijah Juma-PAMCA		
10:40 - 11:10	<ul style="list-style-type: none"> William Gorgas, pioneer of integrated mosquito control – his legacy is as relevant as 100 years ago Community-based biolarviciding for malaria control in Tanga region, Tanzania Laboratory and experimental hut trials to evaluate the bio-efficacy and residual activity of Sovrenta 15WP against laboratory-reared and wild <i>Anopheles</i> mosquitoes in Tanzania 	Norbert Becker, University of Heidelberg Jubilate Minja, NMCP Frank Tenywa, IHI Tanzania
11:10 - 11:30	Q&A	
Task Team 3: Anthropology and human-centered design Facilitator: April Monroe-USAID		
11:30 - 12:00	<ul style="list-style-type: none"> Urban malaria vector bionomics and human sleeping behavior in three cities in Senegal Late morning biting behaviour of <i>Anopheles funestus</i> is a risk factor for transmission in schools in Siaya, western Kenya Integrating mosquito vector and human behavioral data for malaria prevention: an interdisciplinary approach 	Fatou Ndiaye, Université Cheikh Anta Diop Seline Omondi, KEMRI Kaci McCoy, Johns Hopkins CCP
12:00 - 12:20	Q&A	All
12:20 - 12:30	Wrap up	Derric Nimmo, Eric Ochomo
12:30 - 13:00 Concourse	E-poster presentations (5 minutes per talk and 10 min discussion) <ul style="list-style-type: none"> Whole transcriptomic analysis of <i>Anopheles arabiensis</i> resistant to pyrethroids and organophosphate Sustainable bio-based vector control tools „Spray operator’s buddy“ ... to ensure a successful IRS campaign: Distance – Speed – Visibility 	Diana Omoke, KEMRI Maria Soledad Peresin, Auburn University Wolfram Wagner, MESTO
13:00 - 14:00 Larder Restaurant	Buffet lunch	

Work Stream 3 - Implementing the Global Vector Control Response

Co-Leads: Anne Wilson & Chadwick Sikaala

14:00 – 14:05	Welcome & Work Stream updates	Chadwick Sikaala Anne Wilson
Task Team 1: Integrated Vector Management Co-leads: Jo Lines & Charles Mbogo		
14:05 – 14:15	Current WHO IVM guidelines	Seth Irish, WHO GMP
14:15 – 15:15	<ul style="list-style-type: none"> The geographical distribution of the malaria vector <i>Anopheles arabiensis</i> in Cabo Verde, 2016–2023: An opportunity for new tools to control and sustain malaria elimination (10 minutes) Zika virus: an emerging public health threat in maternal-child health (10 minutes) Combating malaria with the mosquito symbiont <i>Chromobacterium anophelis</i> sp.nov cell-free bioactive supernatant (10 minutes) The System of Rice Intensification can produce more malaria vectors (10 minutes) Phenotypic and molecular characterization of pyrethroid resistance escalation in the African malaria vector <i>Anopheles funestus</i> Cameroon-wide (10 minutes) Vector control strategies in the Gambia (10 minutes) 	Adilson De Pina, Programa de Eliminação do Paludismo, Ministério da Saúde, Cabo Verde Ernest Tambo, University of Global Health Equity, Rwanda Jacques Gnambani, Institut de Recherche en Sciences de la Santé, Burkina Faso Harrison Hardy, University of Greenwich, UK Hervé Raoul Tazokong, University of Yaoundé, Cameroon Ebrima D Bah, NMCP The Gambia All
15:15 – 15:25	Q&A (10 minutes)	
15:00 – 15:30 Concourse	Afternoon break / fair-trade coffee, selection of teas, fruit juices, snacks	
Task Team 2: Capacity and Collaboration Co-leads: Givemore Munhenga		
15:25 – 15:35	Supporting the setup of a malaria entomological surveillance network in Angola toward sustainable local entomological capacity	Gonçalo Alves, The Mentor Initiative
15:35 – 16:15	Panel discussion: Regional capacity development and collaboration: what has been done, current status and way forward	Samson Kiware, PAMCA Chadwick Sikaala, E8 Muhammad Mukhtar, APMEN

Task Team 3: <i>Anopheles stephensi</i> response Co-leads: Melissa Yoshimizu, Sarah Zohdy, Susanta Ghosh		
16:15 – 17:00	<i>Anopheles stephensi</i> research agenda	Anne Wilson, LSTM Sarah Zohdy, CDC Melissa Yoshimizu, USAID Susanta Ghosh, Mangalore University
17:00 – 17:15	Entomological monitoring for larval source management against invasive malaria vector, <i>Anopheles stephensi</i> , in Ethiopia (10 minutes) Q&A (5 minutes)	Gashu Zegeye, PMI Evolve Project, Abt Associates
Task Team 4: Vector control in humanitarian emergencies Co-leads: Joe Lewinski, Julius Kasozi		
17:15 – 18:25	Introduction to the Session and Task Team (25 minutes) <ul style="list-style-type: none"> • Key Takeaways from Roundtable Series on Malaria in Emergencies • Updates on the <u>NEW</u> Malaria and Emergencies Handbook • A look to the future, priorities and opportunities Expanding the Vector Control Toolbox for Emergency Settings (15 minutes) Improving Coordination and Delivery of Vector Control Commodities in Uganda (10 minutes) Vector Control: learnings from implementing in emergencies (10 minutes) Q&A (10 minutes)	Joe Lewinski, Consultant/ Julius Kasozi, UNHCR Mike Macdonald, Consultant Julius Kasozi, UNHCR Katie Evans, The MENTOR Initiative
18:25 – 18:30	Wrap up	Chadwick Sikaala Anne Wilson
Wednesday 17 April 2024 MH2 & MH3		
9:00 – 9:05	Welcome	Chair: Corine Ngufor
9:05 – 9:30	Exhibition Fair, 3-minute pitch	Envu, Christine Ochieng Goizper, Iñigo Garmendia MESTO, Wolfram Wagner Mitsui, Takeo Maezawa RAFT, Jo Lines

		Syngenta, Rose Peter Vestergaard, Alexis Kamdjou
9:30 – 9:40	IVCC strategy update	Justin McBeath, IVCC
9:40 – 9:50	PAMCA 2025 conference	Corine Karema, PAMCA
9:50 – 9:55	Introducing the new global Elimination Interest Group	Baltazar Candrinho, NMCP Mozambique Allison Tatarsky, UCSF
9:55 – 10:10	The role of vector control in malaria eradication: where are we?	Helen Jamet, BMGF
10:10 – 10:20	Q&A	
10:20 – 10:45 Concourse	Morning break / fair-trade coffee, selection of teas, fruit juices, snacks	
Session 3 MH2 & MH3	Roundtable discussion and closure	
10:45 – 12:15	Climate change, climate related emergencies and vector control Panel members: Abdisalan Noor Mohammad Mukhtar (Pakistan) Achim Redding (BASF) Kenny Onasanya (Unitaid) Helen Jamet (BMGF) Sarah Zohdy (PMI) Kate Kolaczinski (The Global Fund)	Moderators: Corine Ngufor El Hadji Amadou Niang
12:15 – 12:30	<ul style="list-style-type: none"> • Work Stream highlights, next steps • Way forward in 2024-2025 • Any other business 	Moderators: Corine, El Hadji, Konstantina
12:30 – 13:30 Larder Restaurant	Buffet lunch	
<p align="center">Joint meeting Vector Control & Multi-Sectoral Working Groups The role of multisectoral approaches to vector control Co-Chairs: Corine Ngufor & El Hadji Amadou Niang (VCWG) & Graham Alabaster & Peter Mbabazi (MSWG) MH2 & MH3</p>		
Broad goals and activities		
13:30 – 14:00	Update from RBM VCWG	Corine Ngufor El Hadji Amadou Niang

14:00 – 14:30	Update from RBM MSWG	Graham Alabaster, Peter Mbabazi
Emerging topics		
14:30 – 15:30	Building a broader approach to mosquito management across the built environment (2x10 min talks, 40 min discussion)	Seth Irish, WHO GMP Michael Macdonald, Consultant Olukayode Odufuwa (discussant) All
15:30 – 16:00 Concourse	Afternoon break / fair-trade coffee, selection of teas, fruit juices, snacks	
15:30 – 16:30	Locally focused approaches to financing (3x10 min talks, 30 min discussion)	Robert Mugerwa, Uganda NMCD David McGuire, IVCC Samuel Asare-Bediako Benso Oil Palm Plantation, Ghana Sam Okello (discussant) All
16:30 – 17:00	List of outcomes from the Joint meeting <ul style="list-style-type: none"> Opinion/commentary article (1.5-2 pages) for the broader audience Two-way dialogue, vision and areas where the two WGs are working together in a complementary way 	Corine Ngufor, El Hadji Amadou Niang, Graham Alabaster, Peter Mbabazi
SIDE-MEETING Larval Source Management (LSM)		
17:00 – 18:00 Room AD3	An open forum discussions on pertinent matters on LSM in Africa Tentative topics of discussion <ul style="list-style-type: none"> Landscape analysis of LSM implementation in Africa Evaluation framework for LSM projects and programs in Africa Review and read out of resolutions of the BMGF/PAMCA/PMI LSM meeting in Addis Ababa, Ethiopia in 2023: progress and prospects Establishment of a LSM community of practice to lead and champion LSM programs in Africa Other 	
Elijah Juma (PAMCA), Allison Tatarsky (UCSF), Edward Thomsen (UCSF)		

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