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# **2<sup>nd</sup> New Challenges, New Tools in Vector Control Workstream**

## Update on Workstream Activities

Co-chairs: Fredros Okumu and Mike Reddy  
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# New Tools and New Challenges for Vector Control

**Established in 2016, this work stream primarily examines the limitations of our current approaches to malaria vector control, as well as the potential of various new tools and strategies, which may effectively complement current best practices across different eco-epidemiological settings.**

## **Emphasis is placed on the following aspects:**

- Identification and improved understanding of current and future challenges related to malaria vector control,
- Development and evaluation of new tools for malaria vector control
- Improved understanding and quantification of residual malaria transmission, including the components that occur outside human dwellings in different settings. This includes generating the evidence and estimating the risk attributed to residual transmission across endemic settings,
- Establishing regional networks to facilitate mutual learning between expert groups, countries and region, on the subject of challenges and tools for malaria vector control

## Update on Workstream Activities

Name of Activity	Expected end date	Status	Responsible	Actual end date
<b>Consolidating Evidence on New Challenges and New Tools for Malaria Vector Control</b>	Oct 2016	The UCSF team has completed an in-depth review on “Expanding the Vector Control Tool Box for Malaria Elimination”. This review also included a large online survey with various experts across the globe. The work includes a comprehensive review of up to 22 vector control tools other than IRS and LLINs. A final report will be published in 2017. The team will present findings during the VCWG-12, Feb 2017.	Allison Tartasky, Yasmin Williams, Lucy Tusting and Fredros Okumu	Feb 2017

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<b>Mutual learning and idea sharing between south-east Asia and Africa</b>	Dec 2016	<p>Engagement was initiated with the help of Drs. Mike McDonald (Baltimore) and Jeffrey Hii (Bangkok). Work stream lead (Fredros Okumu) participated and presented the African perspective on new challenges and new tools during the Joint International Tropical Medicine Meeting in Bangkok in December 2016. Discussions were held with Jeffrey and team. The Asian team has been invited to join the discussions in Geneva in February 2017.</p> <p>Separately there are groups in south east Asia already working actively on residual malaria transmission, including outdoor biting. Plans are underway to conduct a joint meeting for all groups, including those in Africa and Asia studying residual malaria transmission, under the auspices of WHO-TDR</p> <p>Travel support was contributed by Ifakara Health Institute; through a Wellcome Trust Fellowship &amp; by Mahidol University, Bangkok</p>	Fredros Okumu, Michael Macdonald and Jeffrey Hii	Dec 2016

<b>Name of Activity</b>	<b>Expected end date</b>	<b>Status</b>	<b>Responsible</b>	<b>Actual end date</b>
<b>Symposia on New Tools and New Challenges during the PAMCA conference side meeting</b>	Sept 2016	<p>Contacts were initiated with PAMCA organizing committee in July 2016; permission to hold the symposium was obtained from PAMCA</p> <p>We put forth an invitation to all members seeking presentations. Reviews of these applications (which included abstracts and reference letters) were reviewed independently by at least 4 reviewers selected from among the VCWG membership. Two students were offered travel funding support.</p> <p>The VCWG-NTNC symposium was largely very successful, and covered not only the new tools (for example the Ivermectin presentation by Bernard Abongo), but also current challenges such as insecticide resistance. On the last day of PAMCA, a second symposium was held, focusing on the role of PAMCA in addressing these vector-control challenges.</p>	Fredros Okumu, Charles Mbogo, Silas Majambere, Samson Awolola and Mike Reddy	Sept 2016

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<b>Develop draft guidelines for measuring residual malaria transmission and its drivers.</b>	Nov 2017	<p>The plan by members here was to examine methods used in past, current and new studies on residual malaria transmission in Africa and Asia, and develop draft standardizable guidelines to quantify the transmission and its drivers across settings.</p> <p>Discussions on this subject were completed during the VectorWorks Annual Work Planning Meeting (18<sup>th</sup>-19<sup>th</sup> July 2016); in Baltimore, attended by both Konstantina and Fredros. During this meeting, a proposals to do this in support of and in partnership with VectorWorks program at JHU, was made and adopted. Given that VectorWorks JHU has overlapping interests, it was reasonable to merge these activities and optimize outcomes.</p> <p>We are aware that TDR is planning a similar effort in 2017, so we expect to engage also with TDR during the February 2017 Geneva meeting. The expectation is that a joint meeting of all groups working on residual malaria transmission will be held somewhere in Africa, (or as a side meeting to a pre-scheduled meeting) sometime in late 2017.</p> <p>During the VCWG-12 meeting, Ms. April Monroe (from JHU) will provide a presentation on general progress of residual transmission work (including measures of indoor and outdoor biting; and human behavioural determinants)</p>	April Monroe & Mike Reddy & Fredros	Late 2017; no specific dates set