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Scaling Up Vector Control for Malaria Prevention

President's Malaria Initiative

VectorWorks Nigeria Annual Report – Year 1

Reporting period: October 1, 2014 –September 30, 2015

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Background

The VectorWorks Project is a five-year (2014–2019) project funded by the United States President’s Malaria Initiative (PMI). The project goal is to support countries to achieve and maintain high rates of coverage and use of vector control and management interventions other than indoor residual spraying. Project activities focus on three objectives: policy; monitoring, evaluation, and operations research; and implementation.

PMI/Nigeria has asked VectorWorks for support in monitoring the durability of insecticide-treated mosquito nets (ITNs). The durability monitoring study will provide the Nigeria Malaria Elimination Programme (NMEP), Roll Back Malaria partners, and PMI with valuable information regarding the performance and estimated “useful life” of the ITN distributed during the current round of mass campaigns. VectorWorks and PMI/Nigeria will collect the data in a manner that allows it to link with some of NMEP’s entomological monitoring sites. This will enable interpretation of ITN durability data in the context of vector dominance, biting behavior, and insecticide resistance.

PMI’s durability monitoring guidelines require data collection for up to 36 months post-distribution. VectorWorks’s work plan currently covers only the first 24 months of data collection. In addition, VectorWorks will work to strengthen in-country capacity to plan, carry out, and interpret such studies by using local partners and principal investigators and by conducting a data analysis and dissemination workshop.

Summary of Activities

Year 1 durability monitoring activities were postponed due to the delay in net distribution in Zamfara and Ebonyi States. However, Nigeria’s activities have benefited from the finalization of PMI’s global standard durability monitoring protocols as well as tablet-based data collection forms from Mozambique. During the Year 2 work plan discussions, the project added Oyo State as a third durability monitoring site. With the completion of the Zamfara (September 2015), Ebonyi (September 2015), and Oyo (April 2016) net distributions, as well as the finalization of the global PMI protocols and tools, VectorWorks is well-positioned to begin durability monitoring activities in Year 2.

Activities

NG.1 ITN Durability Monitoring

Progress Report: The start of durability monitoring activities were postponed due to the delay in net distribution in Zamfara and Ebonyi States (the planned June 2015 distribution took place in September 2015). However, the program benefited from finalization of PMI global standard durability monitoring protocols as well as the development of tablet-based data collection forms from Mozambique (finalized in Year 1, Quarter 4). Some of the materials completed include:

1. Detailed protocols including monitoring design, sampling, and timing
2. Standard minimum questionnaires, sample consent forms, random number sheets for household selection during fieldwork, and hole index tools
3. Standard training manual and materials for field workers
4. Sample data entry screen
5. Detailed operational budget template
6. Digital data entry system

Plans for Year 2:

1. Dr. Albert Kilian will travel to Nigeria to plan the durability monitoring study. He will meet with PMI, NMEP, and other stakeholders to strengthen their capacity in planning and designing these types of studies, and will finalize the selection of sites, sampling frame, and operational plan for the survey.
2. Adaptation of standard tools to the Nigeria context and receipt of ethical clearance from the Nigeria health research ethics committee and from the Johns Hopkins Bloomberg School of Public Health institutional review board.
3. Conduct the first round of data collection to establish a baseline/cohort in all three sites
4. Conduct the 12-month assessment in Zamfara and Ebonyi States

Deliverables	Status
Durability monitoring protocol	Postponed to Year 2, Q1
Schedule of fieldwork	Postponed to Year 2, Q1
Baseline assessment results summary from Zamfara, Ebonyi, and Oyo	Expected Year 2
12-month assessment results summary from Zamfara and Ebonyi	Expected Year 2
12-month assessment results summary from Oyo	Expected Year 3
24-month assessment results summary from Zamfara and Ebonyi	Expected Year 3
Reports from any additional data collection activities; final report, manuscripts	Expected Year 4–5

NG.2 Data Analysis and Dissemination Workshop

Progress Report: Due to the postponement of durability monitoring activities, VectorWorks rescheduled this workshop from Year 2, Quarter 2 to Year 3, Quarter 3.

Plans for Year 2: N/A

Deliverables	Status
Workshop agenda	Expected Year 3
Workshop report	Expected Year 3

Project Management

NG.PM.1 Work Plan and Reporting

Progress Report: PMI approved VectorWorks' Year 1 work plan in June 2015. VectorWorks has submitted quarterly financial reports and semiannual progress reports on time.

Plans for Year 2: VectorWorks is in the process of submitting the Year 2–3 work plan, which reflects the scheduling changes due to the postponement of durability monitoring activities.

Deliverables	Status
Year 1–2 work plan and monitoring plan approved by PMI Nigeria	PMI approved the work plan on June 2, 2015
Quarterly financial reports	Completed
Semiannual reports	Completed

Annex 1. Monitoring Plan

Outcome 1: NMEP and partners understand the concept of the durability monitoring and have the capacity to plan, implement, analyze, and interpret it according to established guidelines.

	Indicator/Milestone	Source	Due Date of Activity	Date Completed
Output 1.1	At least two staff of NMEP and three principal investigators (PI) of entomological sites trained in durability monitoring (DM) study design and planning	Progress report	January 2016	Delayed; moved to Year 2
Output 1.2	At least two staff of NMEP and three PI of entomological sites participate in the “data analysis workshop” after the baseline data collection	Travel report analysis workshop	October 2016	Delayed; moved to Year 2
Output 1.3	Trained NMEP staff and PI analyze the Year 2 data in parallel to VectorWorks team and receive feedback on results	Progress report	October 2017	Delayed; moved to Year 2
Output 1.4	Trained NMEP staff and PI analyze the Year 2 data in parallel to VectorWorks team and come up with the same results	Progress report	October 2018	Delayed; moved to Year 2

Outcome 2: Durability monitoring activities are implemented according to plan and of high quality

	Indicator/Milestone	Source	Due date	Date Completed
Output 2.1	Protocol and research tools developed	Progress report	December 2015	Delayed; moved to Year 2
Output 2.2	Protocol received clearance from JHU institutional review board and Nigeria human research ethics committee	Progress report	January 2016	Delayed; moved to Year 2
Output 2.3	At least 90% of expected sample achieved and data collected at baseline	Baseline assessment report	August 2016	TBD
Output 2.4	At least 90% of expected sample achieved and data collected at Year 1	Year 1 report	May 2017	TBD
Output 2.5	At least 90% of expected sample achieved and data collected at Year 2	Year 2 report	May 2017	TBD
Output 2.6	At least 90% of expected sample achieved and data collected at Year 3	Year 3 report	May 2018	TBD
Output 2.7	Final data for physical and insecticidal durability available	Final report, durability monitoring website	August 2018	TBD

Outcome 3: Durability monitoring results are disseminated and action taken or recommendations made accordingly

	Indicator/Milestone	Source	Due date	Date Completed
Output 3.1	Interim Year 2 results presented and discussed at Integrated Vector Management (IVM) Committee	Progress report	December 2017	TBD
Output 3.2	Final durability monitoring (baseline to Year 3) results presented and discussed at IVM Committee and recommendations issued	Progress report	June 2019	TBD
Output 3.3	Joint publication of results submitted to journal	Manuscript	March 2019	TBD