



# Nigeria Malaria Surveillance, Monitoring, and Evaluation Workshop

## Second National Workshop Activity Report

Ikeja, Lagos State, Nigeria

October 8–19, 2018

WS-18-51



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U.S. President's Malaria Initiative



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U.S. President's Malaria Initiative

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Cover photo: Participants from Yobe and Gombe State Malaria Elimination Programmes creating graphics to present malaria data

Photo credit: Ashley Garley

# CONTENTS

Acknowledgments.....	ii
Abbreviations .....	v
<b>1. Overview and Background .....</b>	<b>1</b>
<b>2. Workshop Preparation.....</b>	<b>2</b>
2.1 Curriculum Updates .....	2
2.2 Venue Identification.....	2
2.3 Participant Selection.....	2
2.4 Facilitator Selection .....	2
2.5 Facilitators' Meeting.....	3
3.1 Participants.....	4
3.2 Content.....	4
3.3 Group Work .....	6
3.4 Field Work .....	7
<b>4. Workshop Evaluation .....</b>	<b>8</b>
5.1 Facilitation Team .....	10
5.2 Curriculum .....	10
5.3 Venue.....	10
<b>6. Next Steps.....</b>	<b>11</b>
6.1 Alumni Follow-Up.....	11
6.2 Future Trainings.....	11
Appendix A. Workshop Schedule .....	12
Appendix B. Overall Course and Module Evaluation Results.....	14
Appendix C. Quality of Content and Instruction Evaluation Scores by Module.....	16
Appendix D. Pretest and Posttest Scores by Participant.....	17
Appendix E. Participant Album .....	18

## FIGURES

Figure 1. Group work by progress report.....	6
Figure 2. Total average score by group .....	6
Figure 3. Assessment results by year.....	9

## TABLES

Table 1. 2018 facilitation and support team.....	3
Table 2. Number of participants trained by program .....	4
Table 3. Course modules and facilitators .....	5
Table 4. Group work on malaria control intervention.....	6

## **ABBREVIATIONS**

AFENET	African Field Epidemiology Network
CRS	Catholic Relief Services
LGA	local government area
M&E	monitoring and evaluation
NMEP	National Malaria Elimination Programme
NIMR	Nigerian Institute of Medical Research
OAU	Obafemi Awolowo University
PMI	President's Malaria Initiative
SME	surveillance, monitoring, and evaluation
SMEP	State Malaria Elimination Programme
TES	therapeutic efficacy studies
USAID	United States Agency for International Development
WHO	World Health Organization





# 1. OVERVIEW AND BACKGROUND

Nigeria has the highest malaria burden in the world, contributing to 27 percent of the estimated malaria cases worldwide.<sup>1</sup> Nigeria's National Malaria Elimination Programme (NMEP) is leading efforts to reduce the disease burden by scaling up prevention and treatment interventions in line with its National Malaria Strategic plan (2014-2020).<sup>2</sup> A strong surveillance, monitoring, and evaluation (SME) system that generates high-quality data will guide implementation efforts and measure achievements at all levels of Nigeria's healthcare system. Building a strong SME system requires tools and skills adapted to the country context.

MEASURE Evaluation, funded by the United States Agency for International Development (USAID) and the President's Malaria Initiative (PMI), contributes to strengthening SME systems by building the technical skills of individuals through regional and country-specific workshops. In 2017, Nigeria's NMEP, with technical support from MEASURE Evaluation, designed and implemented the first national SME malaria workshop to train State Malaria Elimination Programme (SMEP) staff from PMI-supported states. In 2018, a second workshop targeted SMEP staff from Global Fund-supported states. This workshop was jointly funded, with PMI supporting MEASURE Evaluation's technical assistance and the Global Fund supporting workshop logistics and participant costs. Twenty-six SMEP staff completed the training, which was held from October 8 to 19, 2018, at the Dover Hotel Ikeja in Lagos State.

Workshop objectives were as follows:

- Training participants in fundamental concepts and practical approaches to malaria SME
- Helping participants understand programmatic applications of the main tools and data systems used to monitor and evaluate malaria programs
- Providing a platform for participants to share and learn from other experiences to strengthen their SME systems
- Providing participants with hands-on experience in developing operational SME plans

This activity report describes the 2018 workshop preparation, implementation, and results. It concludes with next steps for future in-country trainings.



Facilitator Dr. Maikore providing support to the seasonal malaria chemoprevention group during a group work exercise

<sup>1</sup> World Health Organization (WHO). (2017). *World malaria report 2017*. Geneva, Switzerland: WHO.

<sup>2</sup> Federal Ministry of Health. (2014). *Malaria strategic plan 2014–2020*. Abuja, Nigeria: National Malaria Elimination Program,

## **2. WORKSHOP PREPARATION**

To prepare for the second national malaria SME workshop, MEASURE Evaluation and the NMEP updated the curriculum, identified a venue, selected participants, assembled the facilitation team, and held a facilitators' meeting before the workshop.

### **2.1 Curriculum Updates**

Updates were made to the 2018 curriculum based on feedback from 2017 participants, 2018 participant expectations, and the latest global guidance in malaria surveillance. A new data source exercise was proposed to make the module more interactive. Two optional modules were offered on Saturday morning, October 13: an overview of DHIS 2 and an updated sampling design. MEASURE Evaluation presented a brief overview of the revised Household Survey Indicators for Malaria Control and shared hard copies of the document.

### **2.2 Venue Identification**

The 2018 workshop was moved to Lagos after participants and facilitators reported negative feedback about the venue and location in 2017. The NMEP identified the Dover Hotel based on recommendations from the World Health Organization (WHO). Although the NMEP reserved the Dover Hotel in Lekki, the workshop was relocated to the Dover Hotel in Ikeja at the last minute due to miscommunication and availability.

### **2.3 Participant Selection**

The NMEP led the application process and identified 26 monitoring and evaluation (M&E) officers and malaria program managers from Global Fund-supported states as participants.

### **2.4 Facilitator Selection**

The NMEP maintained most of the same facilitators from 2017 and added a few new facilitators to the team. Two alumni from the 2017 course were chosen from Akwa Ibom and Zamfara to become co-facilitators. They shared their state's malaria SME experiences and co-facilitated three modules each. A new facilitator from Catholic Relief Services (CRS), the principal recipient of the Global Fund malaria grant, also joined and co-facilitated two modules. The course took place in Lagos, where the Nigerian Institute of Medical Research (NIMR) is located, so the NMEP invited the head of the M&E unit to share an overview of the therapeutic efficacy studies (TES) and entomological surveillance activities in Nigeria. Table 1 lists the facilitation and support team.

**Table 1. 2018 facilitation and support team**

Organization	Facilitators
African Field Epidemiology Network (AFENET)	Adewole Adefisoye Olufemi Ajumobi
CRS	Nnaemeka Onugu
MEASURE Evaluation	Ashley Garley Yazoumé Yé
NIMR	Adesola Zaidat Musa
NMEP	Perpetua Uhomoibhi Festus Okoh Timothy Obot Ibrahim Maikore Confidence Udeh
Obafemi Awolowo University (OAU)	Olusegun Afolabi
SMEP Akwa Ibom	Ekaette Ekong
SMEP Zamfara	Abdul Nasir Abdullahi
USAID PMI/Nigeria	Mark Maire Uwem Inyang
WHO	Geoffrey Namara

## 2.5 Facilitators' Meeting

A facilitators' meeting took place October 5, 2018, at the Dover Hotel Ikeja in Lagos to discuss Nigeria's emerging malaria SME priorities, review 2017 workshop results, learn about 2018 participant expectations, and discuss module updates. It was also an opportunity to allow new facilitators to practice their presentations and receive feedback on them.

### 3. WORKSHOP IMPLEMENTATION

#### 3.1 Participants

Twenty-six project managers and M&E officers from the NMEP and 13 Global Fund-supported SMEPs completed the two-week workshop. Of the 26 participants, 6 were female. Table 2 lists the number of participants trained by program, and Appendix B provides an album of participants, facilitators, and support staff.

**Table 2. Number of participants trained by program**

Program	Number trained
NMEP/Federal Capital Territory	1
Adamawa SMEP	2
Delta SMEP	2
Gombe SMEP	2
Jigawa SMEP	2
Kaduna SMEP	2
Kano SMEP	2
Katsina SMEP	2
Kwara SMEP	2
Niger SMEP	2
Ogun SMEP	2
Osun SMEP	2
Taraba SMEP	1
Yobe SMEP	2
<b>TOTAL</b>	<b>26</b>

#### 3.2 Content

Training modules were taught as didactic lessons, plenary sessions, and group discussions. Each module was co-facilitated with two to three facilitators to lead class, group, or individual exercises, including hands-on data analysis. The workshop offered an overview of DHIS 2 and sampling design as optional sessions on Saturday morning, and all participants attended. The following new reference materials were shared: the WHO Malaria Surveillance, Monitoring, and Evaluation reference manual; the Landscape Assessment of Malaria Surveillance in Nigeria; the revised Household Survey Indicators for Malaria Control; and several recently published journal articles. Table 3 lists the course modules and facilitators.



Kano SMEP project manager sharing a conceptual framework developed by his team  
Photo: Ashley Garley

**Table 3. Course modules and facilitators**

Course module	Facilitators
Malaria in Nigeria	Perpetua Uhomoibhi, NMEP Festus Okoh, NMEP
Introduction to SME Concepts	Ibrahim Maikore, NMEP Uwem Inyang, PMI
SME Experience in Akwa Ibom and Zamfara	Ekaette Ekong, SMEP Akwa Ibom Abdul Nasir Abdullahi, SMEP Zamfara
Role of Data in Decision Making	Perpetua Uhomoibhi, NMEP Ekaette Ekong, SMEP Akwa Ibom Uwem Inyang, USAID PMI
Leadership for Malaria SME	Perpetua Uhomoibhi, NMEP Festus Okoh, NMEP Abdul Nasir Abdullahi, SMEP Zamfara
Ethics of Malaria SME	Segun Afolabi, OAU Geoffrey Namara, WHO
Designing and Implementing an M&E Plan	Segun Afolabi, OAU Uwem Inyang, PMI
Introduction to Group Work	Festus Okoh, NMEP Segun Afolabi, OAU
Frameworks	Ibrahim Maikore, NMEP Segun Afolabi, OAU
Indicators	Ibrahim Maikore, NMEP Segun Afolabi, OAU
Data Sources	Festus Okoh, NMEP Ekaette Ekong, SMEP Akwa Ibom Nnaemeka Onugu, CRS
Data Management	Geoffrey Namara, WHO Nnaemeka Onugu, CRS
Data Quality	Segun Afolabi, OAU Uwem Inyang, PMI
Gender in Malaria SME	Festus Okoh, NMEP Ashley Garley, MEASURE Evaluation
Sampling Design ( <i>optional</i> )	Yazoumé Yé, MEASURE Evaluation
Malaria Surveillance	Festus Okoh, NMEP Olufemi Ajumobi, AFENET Geoffrey Namara, WHO
Overview of Entomological surveillance and TES	Zaidat Musa, NIMR
Budgeting an SME Plan	Timothy Obot, NMEP Abdul Nasir Abdullahi, SMEP Zamfara
Data Analysis and Interpretation	Adewole Adefisoye, AFENET Ibrahim Maikore, NMEP Geoffrey Namara, WHO
Data Demand and Use	Perpetua Uhomobhi, NMEP Abdul Nasir Abdullahi, SMEP Zamfara Ekaette Ekong, SMEP Akwa Ibom
Evaluation Methods for Malaria	Ibrahim Maikore, NMEP Yazoumé Yé, MEASURE Evaluation
Data Presentation and Dissemination	Olufemi Ajumobi, AFENET

### 3.3 Group Work

Participants were divided into five groups to complete a group work assignment that provided practical experience and reinforced SME techniques introduced during the workshop.

To gain a better understanding of the malaria control strategies in place, groups conducted a critical review of the NMEP’s Monitoring and Evaluation Plan 2014–2020. Then each group developed a state-level operational SME plan based on specific malaria control interventions (see Table 4).



Long-lasting insecticide treated nets group receiving prizes for their first place win

Photo: Basheer Lawan

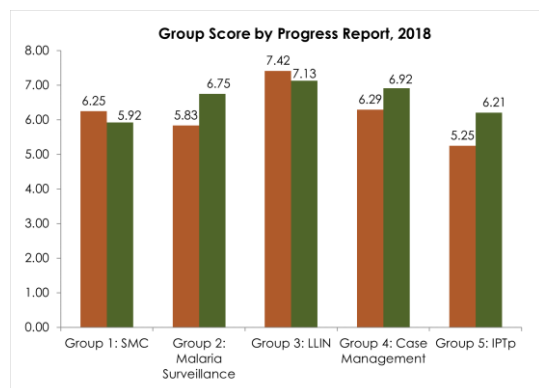
**Table 4. Group work on malaria control intervention**

<b>Group 1</b>	Seasonal malaria chemoprevention in Adamawa State
<b>Group 2</b>	Malaria surveillance in Katsina State
<b>Group 3</b>	Long-lasting insecticide-treated nets in Kaduna State
<b>Group 4</b>	Malaria case management in Kano State
<b>Group 5</b>	Intermittent preventive treatment in pregnancy in Kano State

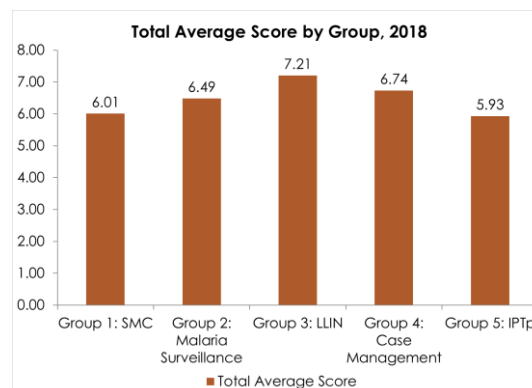
The groups developed a problem statement, designed frameworks, set goals and objectives, selected relevant indicators and data sources specific to their interventions, developed a surveillance strategy, proposed an evaluation plan, and shared budget elements and dissemination and use strategies for their operational SME plans. The groups also completed a data analysis and interpretation exercise using an existing data set and presented their work.

A peer review assessment scored the groups on the quality of their presentation, form, content, presentation skills, responses to questions, teamwork, and group organization. Peers assessed the group work twice: after the first progress report and after the final presentation. Scores were weighted progressively, so that the first presentation was worth two and the final presentation was worth five. The top two groups were recognized and awarded prizes.

**Figure 1. Group work by progress report**



**Figure 2. Total average score by group**





Intermittent preventive treatment in pregnancy group members matching malaria gender indicators to data sources

Photo: Ashley Garley



Malaria surveillance group members designing a logic model

Photo: Ashley Garley

### 3.4 Field Work

A half-day field visit to five health facilities in Ikeja took place during the second week to give participants the opportunity to appreciate how malaria SME works at the health facility level and how data are generated and reported to the local government areas (LGA), state, and national levels. The NMEP organized the field work in collaboration with the Lagos State and Ikeja malaria programs.

Groups developed a field visit protocol that defined objectives and expected outputs for the activity. Existing supervision and data quality audit tools were used during the health facility visits to conduct supportive supervision. Groups reported back in the afternoon with their findings, observations, and recommendations. Members from the Lagos State M&E unit attended the plenary session to learn from the group observations and recommendations.



Case management group members visit a health facility in Ikeja for field work

Photo: Ashley Garley



## 4. WORKSHOP EVALUATION

Several evaluation tools were used to assess the workshop and obtain feedback to improve future courses. Participants completed an overall workshop assessment on the last day that provided feedback on module content, quality of facilitation, workshop materials, workshop environment, relationships among participants, and group work. The overall mean score for the 2018 workshop was 8.70 on a scale of 1 (not satisfactory) to 10 (excellent) (see Appendix B).

Participants ranked the following on average: content, 8.79; quality of instruction, 8.74; and participant materials, 8.76. Lectures and presentations received an average rating of 8.52. The group work scored 8.57, and the field visit scored 8.80.

Scores for logistics and administration improved from 2017. Classroom facilities scored 8.80; meals scored 8.12; lodging scored 8.52; and Internet scored 7.88.

Timing constraints remained a common complaint from participants. Participants said that there was a need to increase timing for the workshop to fully appreciate the amount of materials and group work. They recommended that prompt start and end times be respected according to the schedule and that weekends be free.

When asked how they intended to apply what they had learned during the workshop to their work over the next six months, participants mentioned that they would share the new knowledge from the training with their coworkers, look into ways to cascade a similar training to the LGAs in their states, and develop state SME operational plans. Some had specific applications, such as reviewing or developing frameworks, developing a protocol, setting appropriate targets, and choosing indicators to meet goals and objectives. One participant wanted to review the NMEP's current M&E plan in detail and contribute effectively to the future revision.

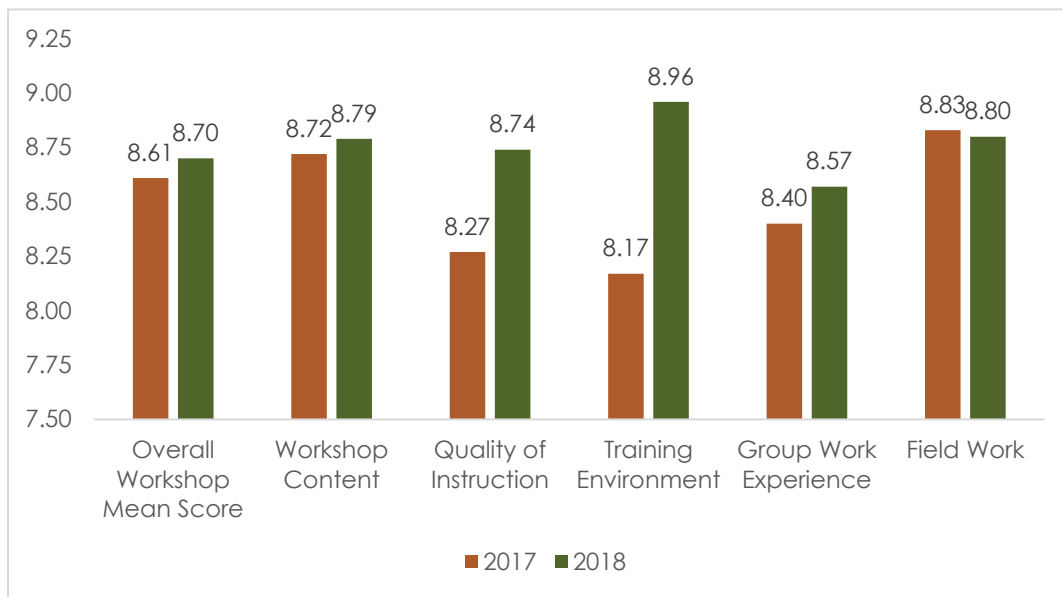
A module assessment was completed by individual participants after each module to assess the quality of content and instruction. Participants provided feedback on the usefulness of individual workshop sessions using a measurement scale from 1 (not satisfactory) to 10 (excellent). Overall average course content scored 8.37, and facilitation scored 8.42. Detailed scores by module are provided in Appendix C. Facilitators used these assessment results at the end of the day to make improvements when necessary.

A knowledge assessment in the form of a pretest and posttest measured the knowledge gained by individual participants from the first day to the last day of the workshop. This assessment contained 23 multiple choice, true/false, and short answer questions on malaria SME, based on content in the workshop modules. Participants could earn a total of 26 points for each test. The average score for participants at pretest was 16.5 (10–21), and the average score at posttest was 18.5 (12–24), resulting in a relative improvement of 12.4 percent. Eighteen participants improved their posttest scores, compared to their pretest, five participants received the same score for both pretest and posttest, and three participants received a slightly lower posttest score (see Appendix D).

Although the cohorts were not the same, scores improved across most categories when reviewing workshop results from 2017 and 2018 (see Figure 3).



**Figure 3. Assessment results by year**



## **5. CONCLUSION**

### **5.1 Facilitation Team**

After implementing two national workshops, the NMEP-led facilitation team is strong, as shown by the improved assessment results for the quality of instruction, which increased from 8.27 in 2017 to 8.74 in 2018. Facilitators understand the technical content in their modules and are confident in their delivery. Having confidence and strong knowledge of the materials allows facilitators to bring new ideas to improve the course. This was apparent when NMEP facilitators proposed a module about the overview of DHIS 2, shared a new landscape assessment of malaria surveillance in Nigeria, and proposed an interactive exercise for the data sources module.

Introducing new facilitators to the team also proved beneficial. The two alumni shared their states' SME experiences and brought different viewpoints to the facilitation team, while also improving their adult learning and facilitation skills, which may be used to cascade future trainings in their states.

The guest speaker from NIMR also shared valuable information on current malaria surveillance activities in Nigeria.

Although these additions contributed to a better workshop, timing remains a challenge that the facilitation team must take into account for future workshops. Sticking to a reasonable time schedule keeps participants engaged and learning and reduces the chance of participants getting overwhelmed.

### **5.2 Curriculum**

The current curriculum is strong and should be used in future workshops to train national and state-level staff. It also provides a solid foundation for step-down trainings for LGAs, but it must be adapted accordingly. If any future changes are made to the curriculum, the focus should be on practical exercises and adaptations to existing content before adding additional theoretical concepts.

### **5.3 Venue**

The challenges that occurred with the miscommunication and availability of the venue in 2018 must be avoided in future workshops. When exploring new venues, MEASURE Evaluation recommends visiting the venue ahead of time to check the workshop hall space, test the audiovisual equipment and Internet connection, see the accommodations, and discuss meal options. This preparation visit should be built into the logistics budget.

## 6. NEXT STEPS

### 6.1 Alumni Follow-Up

After two national workshops, 56 malaria SME professionals from the NMEP and 28 SMEPs have been trained in malaria SME. National and state-level strategies to follow up with these alumni should be developed to support these trained individuals. These strategies should outline post-training collaboration efforts between the NMEP and SMEPs. Possible ideas include the following:

- NMEP mentoring SMEP staff to create a state-level malaria SME plan
- Following up with SMEP staff plans to cascade trainings to LGAs or train state-level colleagues

### 6.2 Future Trainings

Extending this workshop to project managers and M&E officers in remaining states is crucial to building a strong national malaria SME system that generates high-quality data to guide program implementation and measure achievements at all levels of the healthcare system.

Considering the creation of a curriculum targeted to LGAs would also provide opportunities to improve the malaria SME system. MEASURE Evaluation suggests that the NMEP spearhead these future trainings by engaging stakeholders, continuing collaboration efforts, and establishing new partnerships.



2018 malaria SME workshop participants, facilitators, and support staff during an excursion to Oniru beach in Lekki

Photo credit: Ashley Garley

## APPENDIX A. WORKSHOP SCHEDULE

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30–9 a.m. <b>Registration</b>	8:30–9:30 a.m. <b>Leadership for Malaria SME</b> <i>[Perpetua Uhomoibhi, Festus Okoh, Abdul Nasir Abdullahi]</i>	8:30–10:30 a.m. <b>Frameworks</b> <i>[Ibrahim Maikore, Segun Afolabi]</i>	8:30–10:30 a.m. <b>Indicators</b> <i>[Ibrahim Maikore, Segun Afolabi]</i>	8:30–10:30 a.m. <b>Data Sources</b> <i>[Festus Okoh, Ekaette Ekong, Emeka Onugu, Yazoumé Yé]</i>	8:30–10 a.m. <b>Overview of DHIS 2</b> <i>[Ibrahim Maikore]</i>
9–10:30 a.m. <b>Introductions, Overview of Workshop and Pretest</b> <i>[Perpetua Uhomoibhi, Festus Okoh, Ashley Garley]</i>	9:30–10:30 a.m. <b>Ethics of Malaria SME</b> <i>[Segun Afolabi, Geoffrey Namara]</i>				10–11 a.m. <b>Sampling Design</b> <i>[Yazoumé Yé]</i>
<b>Group photo</b>					
<b>BREAK</b> 10:30–11 a.m.					
11 a.m.–12 p.m. <b>Malaria in Nigeria</b> <i>[Perpetua Uhomoibhi, Festus Okoh]</i>	11 a.m.–1 p.m. <b>Designing and implementing an SME Plan</b> <i>[Segun Afolabi, Uwem Inyang]</i>	11 a.m.–1 p.m. <b>Frameworks (cont'd)</b> <i>[Ibrahim Maikore, Segun Afolabi]</i>	11 a.m.–1 p.m. <b>Indicators (cont'd)</b> <i>[Ibrahim Maikore, Segun Afolabi]</i>	11 a.m.–12 p.m. <b>Data Management</b> <i>[Geoffrey Namara, Emeka Onugu]</i>	Excursion TBD
12–1 p.m. <b>Introduction to SME Concepts</b> <i>[Ibrahim Maikore, Uwem Inyang]</i>				12 p.m.–1 p.m. <b>Data Quality</b> <i>[Segun Afolabi, Uwem Inyang]</i>	
<b>LUNCH</b> 1–2 p.m.					
2–3 p.m. <b>Introduction to SME concepts (cont'd)</b> <i>[Ibrahim Maikore, Uwem Inyang]</i>	2–2:30 p.m. <b>Overview of NMSP</b> <i>[Ibrahim Maikore]</i>	2–5:30 p.m. <b>Group Work</b> <i>[Festus Okoh, Ibrahim Maikore, Uwem Inyang]</i>	2–4:30 p.m. <b>Group Work</b> <i>[Festus Okoh, Ibrahim Maikore, Uwem Inyang]</i>	2:30–3:30 p.m. <b>Budgeting an SME Plan</b> <i>[Tim Obot, Abdul Nasir Abdullahi]</i>	
3–3:30 p.m. <b>SME Experience in Akwa Ibom and Zamfara</b> <i>[Ekaette Ekong, Abdul Nasir Abdullahi]</i>	2:30–3 p.m. <b>Introduction to Group Work</b> <i>[Festus Okoh, Segun Afolabi, Uwem Inyang]</i>		4:30–5:30 p.m. <b>Progress Report and Q&amp;A</b> <i>[All Facilitators]</i>	3:30–5:30 p.m. <b>Group Work</b> <i>[Festus Okoh, Ibrahim Maikore, Inyang Uwem]</i>	
3:30–5:30 p.m. <b>The Role of Data in Decision Making</b> <i>[Perpetua Uhomoibhi, Ekaette Ekong, Uwem Inyang]</i>	3–5:30 p.m. <b>Group Work</b> <i>[Festus Okoh, Segun Afolabi, Uwem Inyang, Perpetua Uhomoibhi]</i>				

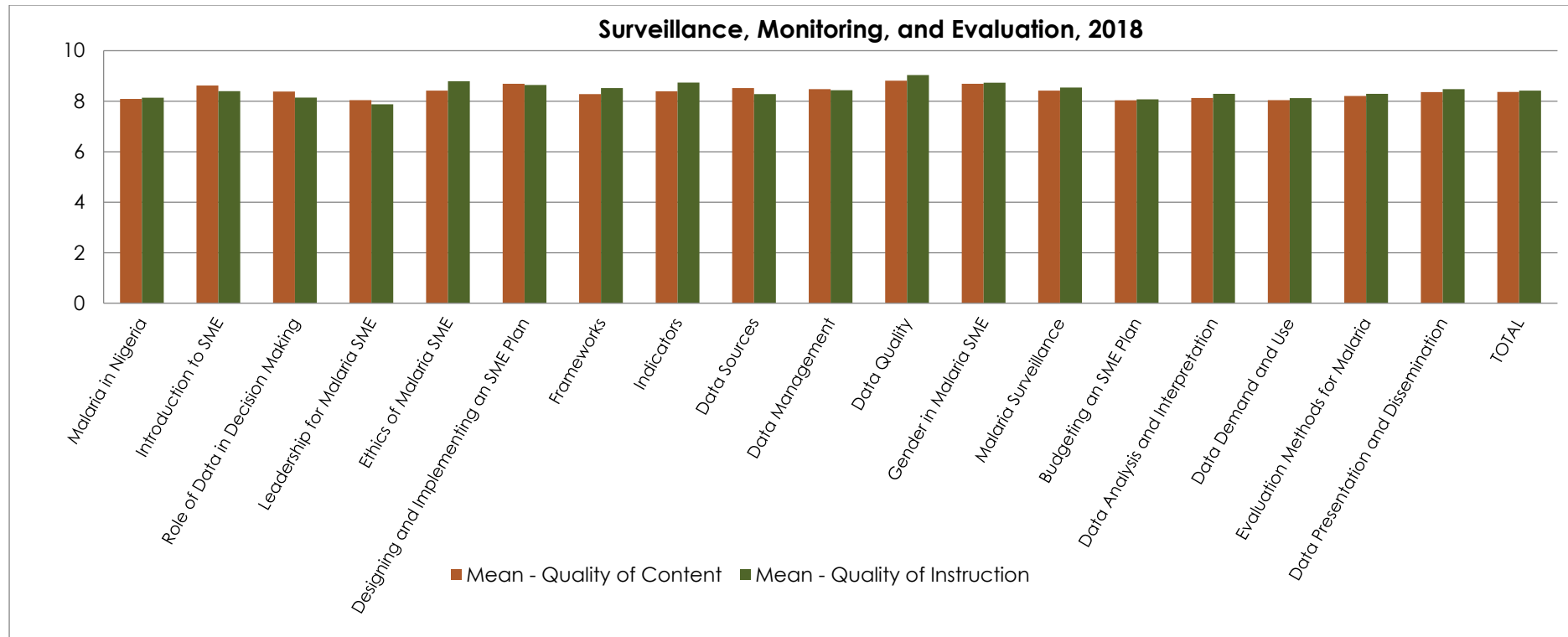
Monday	Tuesday	Wednesday	Thursday	Friday
8:30–10:30 a.m. <b>Malaria Surveillance</b> [Festus Okoh, Olufemi Ajumobi, Geoffrey Namara]	8:30–10:30 a.m. <b>Data Analysis and Interpretation</b> [Adewole Adefisoye, Ibrahim Maikore, Geoffrey Namara]	8:30–10:30 a.m. <b>Field Work</b> [Festus Okoh, Ibrahim Maikore]	8:30–10:30 a.m. <b>Evaluation Methods for Malaria</b> [Ibrahim Maikore, Yazoumé Yé]	8:30–10:30 a.m. <b>Group Presentations</b> [All Facilitators]
<b>BREAK</b> 10:30–11 a.m.				
11 a.m.–12 p.m. <b>Malaria Surveillance (cont'd)</b> [Festus Okoh, Olufemi Ajumobi, Geoffrey Namara]	11 a.m.–1 p.m. <b>Data Analysis and Interpretation</b> [Adewole Adefisoye, Ibrahim Maikore, Geoffrey Namara]	11 a.m.–1 p.m. <b>Field Work</b> [Festus Okoh, Ibrahim Maikore]	11 a.m.–1 p.m. <b>Evaluation Methods for Malaria (cont'd)</b> [Ibrahim Maikore, Yazoumé Yé]	11 a.m.–1 p.m. <b>Group Presentations</b> [All Facilitators]
12–1 p.m. <b>Overview of Entomological Surveillance and TES</b> [Zaidat Musa]				
<b>LUNCH</b> 1–2 p.m.				
2–3 p.m. <b>Gender in Malaria SME</b> [Festus Okoh, Ashley Garley]	2–3 p.m. <b>Data Demand and Use</b> [Perpetua Uhomobhi, Abdul Nasir Abdullahi, Ekaette Ekong]	2–5:30 p.m. <b>Field Work</b> [Festus Okoh, Ibrahim Maikore]	2–4 p.m. <b>Data Presentation and Dissemination</b> [Olufemi Ajumobi]	2:30–3 p.m. <b>Workshop Evaluation and Posttest</b> [Festus, Okoh, Ashley Garley]
3–5:30 p.m. <b>Group Work</b> [Festus Okoh, Ibrahim Maikore, Olufemi Ajumobi]	3–5:30 p.m. <b>Group Work Progress Report</b> [All Facilitators]		4–5:30 p.m. <b>Group Work</b> [Festus Okoh, Ibrahim Maikore, Olufemi Ajumobi]	3–3:30 p.m. <b>Closing Ceremony</b> [Perpetua Uhomobhi, Festus Okoh]

## APPENDIX B. OVERALL COURSE AND MODULE EVALUATION RESULTS

Overall Workshop Rating			
<b>Average</b>	<b>8.70</b>		
Median	9.00		
Mode	9.00		
Summary Ratings			
	Average	Median	Mode
Overall course content	8.79	9.00	9.00
Quality of instruction	8.74	8.00	9.00
Quality of participant materials	8.76	9.00	9.00
Relationships between participants	8.96	9.00	9.00
Group work	8.57	8.50	8.00
Module Scores			
Malaria in Nigeria			
	Average	Median	Mode
Quality of content	8.09	8.00	9.00
Quality of instruction	8.14	8.00	8.00
Introduction to SME			
	Average	Median	Mode
Quality of content	8.62	9.00	9.00
Quality of instruction	8.40	9.00	9.00
Role of Data in Decision Making			
	Average	Median	Mode
Quality of content	8.38	8.00	8.00
Quality of instruction	8.14	8.00	8.00
Leadership for Malaria SME			
	Average	Median	Mode
Quality of content	8.04	8.00	9.00
Quality of instruction	7.88	8.00	8.00
Ethics of Malaria SME			
	Average	Median	Mode
Quality of content	8.42	8.50	8.00
Quality of instruction	8.79	9.00	9.00
Designing and Implementing an SME Plan			
	Average	Median	Mode
Quality of content	8.69	9.00	9.00
Quality of instruction	8.64	9.00	8.00
Frameworks			
	Average	Median	Mode
Quality of content	8.28	9.00	9.00
Quality of instruction	8.52	9.00	9.00
Indicators			
	Average	Median	Mode
Quality of content	8.39	8.00	8.00
Quality of instruction	8.74	9.00	9.00
Data Sources			
	Average	Median	Mode
Quality of content	8.52	8.00	8.00
Quality of instruction	8.28	8.00	8.00
Data Quality			
	Average	Median	Mode
Quality of content	8.81	9.00	9.00
Quality of instruction	9.04	9.00	9.00

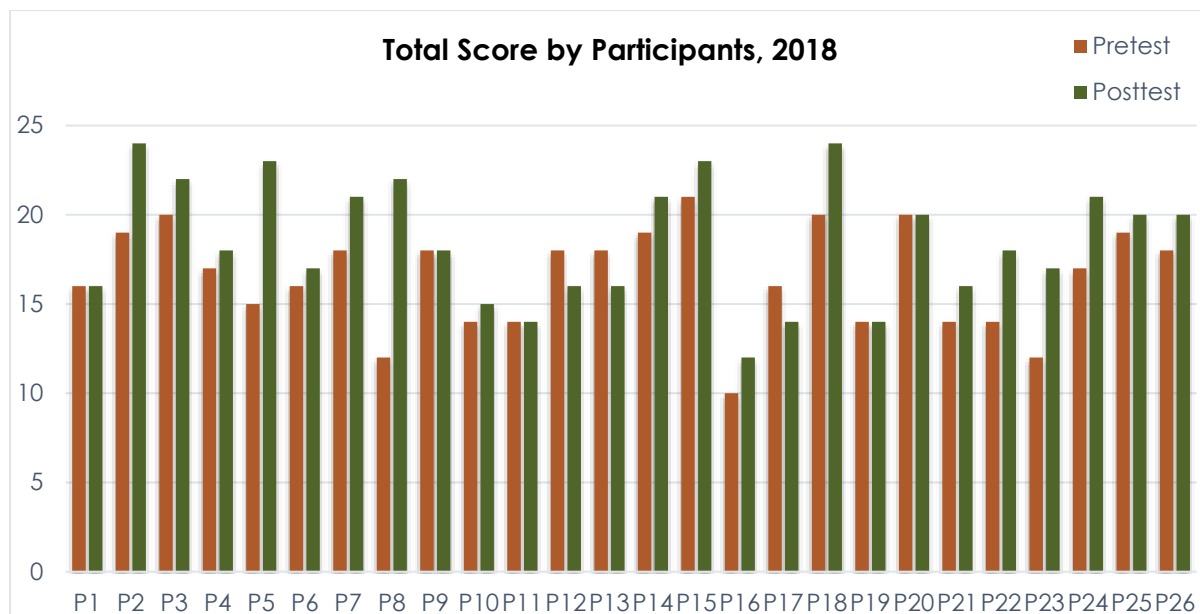
<b>Gender in Malaria SME</b>			
	<b>Average</b>	<b>Median</b>	<b>Mode</b>
Quality of content	8.69	9.00	9.00
Quality of instruction	8.73	9.00	9.00
<b>Malaria Surveillance</b>			
	<b>Average</b>	<b>Median</b>	<b>Mode</b>
Quality of content	8.42	8.00	8.00
Quality of instruction	8.54	9.00	9.00
<b>Budgeting an SME Plan</b>			
	<b>Average</b>	<b>Median</b>	<b>Mode</b>
Quality of content	8.04	8.00	8.00
Quality of instruction	8.07	8.00	8.00
<b>Data Management</b>			
	<b>Average</b>	<b>Median</b>	<b>Mode</b>
Quality of content	8.48	9.00	8.00
Quality of instruction	8.43	8.00	8.00
<b>Data Analysis and Interpretation</b>			
	<b>Average</b>	<b>Median</b>	<b>Mode</b>
Quality of content	8.59	9.00	8.00
Quality of instruction	8.34	9.00	9.00
<b>Data Demand and Use</b>			
	<b>Average</b>	<b>Median</b>	<b>Mode</b>
Quality of content	8.04	9.00	8.00
Quality of instruction	8.12	8.00	8.00
<b>Evaluation Methods in Malaria</b>			
	<b>Average</b>	<b>Median</b>	<b>Mode</b>
Quality of content	8.21	8.00	8.00
Quality of instruction	8.29	8.00	8.00
<b>Data Presentation and Dissemination</b>			
	<b>Average</b>	<b>Median</b>	<b>Mode</b>
Quality of content	8.36	8.00	8.00
Quality of instruction	8.48	9.00	9.00

## APPENDIX C. QUALITY OF CONTENT AND INSTRUCTION EVALUATION SCORES BY MODULE





## APPENDIX D. PRETEST AND POSTTEST SCORES BY PARTICIPANT



## APPENDIX E. PARTICIPANT ALBUM

# Second Nigeria Malaria Surveillance, Monitoring, and Evaluation of Malaria Programs Workshop

October 8-19, 2018  
The Dover Hotel Ikeja  
Lagos State, Nigeria

### ALBUM OF PARTICIPANTS, FACILITATORS, AND SUPPORT STAFF



U.S. President's Malaria Initiative

**GROUP 1: SMC**



**GROUP 2: Malaria Surveillance**



### GROUP 3: Case Management



### GROUP 4: LLIN



## GROUP 5: IPTp



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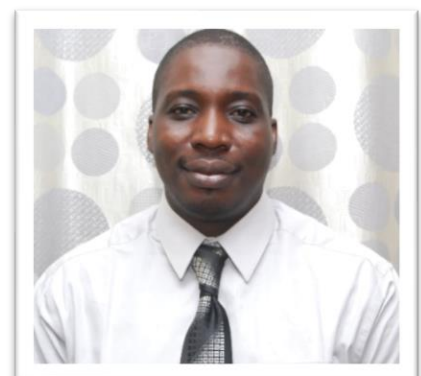
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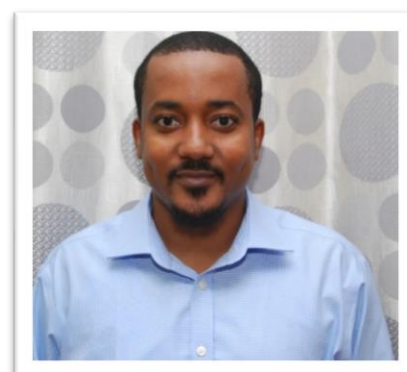
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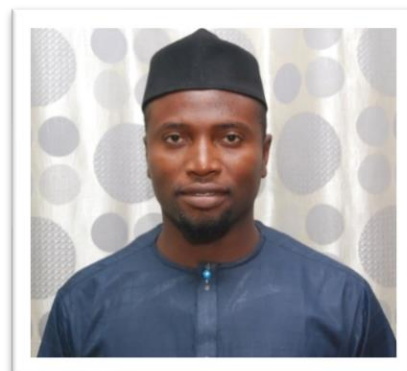
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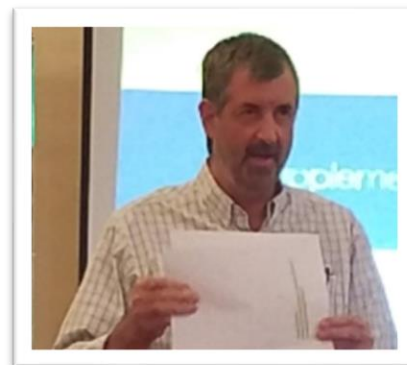




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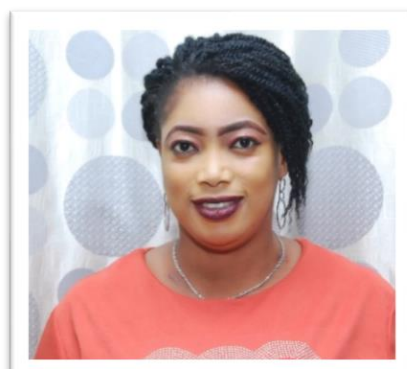
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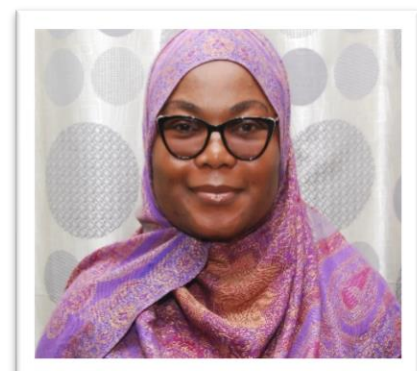
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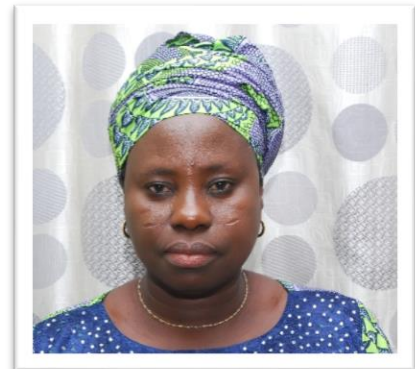
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