

Uganda Malaria Reduction Strategic Plan 2014-2020

Monitoring and Evaluation Plan

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Foreword

By 2020, Uganda aims to have significantly reduced malaria in the country and the Uganda

Malaria Reduction Strategic Plan (UMRSP) 2014/15-2019/20 was developed to guide the process

of achieving this target. It is therefore imperative that focused plans and interventions are

monitored regularly and evaluated periodically to assess progress, shortcomings and inform the

Ministry of Health (MoH) on the next steps. A sound monitoring and evaluation (M&E) plan that is

anchored in a good M&E framework is critical for the success of malaria program implementation.

An appropriate performance framework can demonstrate outputs, outcomes and impact achieved

in prevention and control of malaria and provide a basis for evidence based decision making and

implementation.

This M&E plan has been written to ensure that indicators, their definitions and means of data

collection and measurement are comparable over time. It is also meant to reduce duplication of

efforts by both partners and MoH through ensuring the core principle of the Roll Back Malaria

(RBM) partnership. In addition, the purpose of this M&E plan is to monitor and evaluate the

Uganda Malaria Reduction Strategic Plan (UMRSP) 2014/15-2019/20. The plan also identifies

desired data sources and roles of key malaria M&E stakeholders in the country.

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Director General Health Services

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I would like to thank the National Malaria Control Programme staff and the malaria technical officers who supported the Mid Term Review (MTR) of the previous strategic plan and the UMRSP development process; Dr. Okui Albert Peter (Program Manager), Mr. Bosco Agaba (MTR Coordinator), Mr. Vincent Katamba (NMCP), Mr. Kasule Mathias Mulyazaawo (NMCP), Dr. Henry Stanley Katamba (NMCP), Dr. Denis Rubahika (NMCP), Ms. Lucia Baguma (NMCP), Mr. Richard Okwii (NMCP), Dr. Myers Lugemwa (NMCP), and Dr. Jane Nabakooza (NMCP), Dr. Katureebe Charles (WHO), Dr. Nanyunja Miriam (WHO), Dr. Grace Kabaniha (WHO), Dr. Kassahun Belay (USAID/PMI), Dr. Bryan Kapella (CDC/PMI), Dr. Flavia Mpanga (UNICEF), Dr. Jackson Ojera (UNICEF), Ms. Caroline Asiimwe (FIND), Dr. Senjovu Kaggwa (IDI), Mr. Santos Damoi (IDI), Ms Emmanuella Baguma (CHAI), Dr. Nuwa Anthony (Malaria Consortium), Mr Denis Walusimbi (SURE), Ms Rebecca Babirye (PACE), Ms. Phyellister Nakamya (CCM), Dr. Isabirye Fred (TASO), Dr Sam Siduda Gudoi (SMP), Mr. Freddy Kitutu (MUSPH), Mr. John Kissa (MOH), Mr. Alex Gumisiriza (MOH FCO), Ms. Zahara Najjingo (TASO) for steering this process to its logical conclusion. The consultants for this process were: Dr. Ambrose O. Talisuna, Dr. Patrick Okello, Associate Prof. Pauline Byakika, Dr. Sam Muziki and Mr. Julius Mukobe.

Finally, I would like to state that the development of this M&E plan has been inclusive and participatory, involving all malaria stakeholders from different sectors of government, civil society, academia/research, development partners and the private sector. Therefore, I would like to call upon all stakeholders to adhere to the Roll Back Malaria principle of "The Three Ones" - one strategic plan, one monitoring and evaluation plan and one coordination authority.

I thank you all.

Dr. Asuman Lukwago Permanent Secretary

List of Acronyms

ACT Artemesinin-based Combination Therapy

ADR Adverse Drug Reaction

AMFM Affordable Medicines Facility - malaria

ANC Antenatal Care

AWP Annual Work plan

BFP Budget Framework Paper

CBO Community Based Organisation

CMD Community Medicine Distributor

CSO Civil Society Organisation

DHIS District Healt Information System

DHO District Health Officer

DQA Data Quality Audit

DSS Demographic Surveillance Site

EPI Expanded Program on Immunisation

EPR Epidemic Preparedness and Response

GF Global Fund

HF Health Facility

HMIS Health Management Information System

HPAC Health Policy Advisory Committee

HSD Health Sub District

HSS Health System Strengthening

HSWG Health Sector Working Group

HW Health Worker

ICCM Integrated Community Case Management

IDSR Integrated Disease Surveillance and Response

IPTp Intermittent Preventive Treatment of Malaria in Pregnancy

IRS Indoor Residual Spraying

ITN Insecticide Treated Net

IVM Integrated Vector Management

JRM Joint Review Mission

LG Local Government

LLIN Long Lasting Insecticidal Net

M&E Monitoring and Evaluation

MESST Monitoring and Evaluation Systems Strengthening Tool

MOH Ministry of Health

MOPS Ministry of Public Service

MPR Malaria Program Review

NHA National Health Assembly

NHP Nation Health Policy

HSSIP Health Sector Strategic and Investment Plan

NIP National Investment Plan

NMCP National Malaria Control Program

OPD Outpatient Department

PHP Private Health Practitioners

PMI U.S. President's Malaria Initiative

PNFP Private Not- for -Profit

PSM Procurement and Supplies Management

RBM Roll Back Malaria

RC Resource Centre

RDT Rapid Diagnostic Test

SBCC Social Behaviour Change Communication

SMP Stop Malaria Project

SMS Short Message Service

SP Sulphadoxine/Pyrimethamine

SWAPs Sector Wide Approaches

TWG Technical Working Group

UBOS Uganda Bureau of Statistics

UCP Uganda Capacity Program

UDHS Uganda Demographic Health Survey

UMSP Uganda Malaria Surveillance Project

USAID United States Agency for International Development

VHT Village Health Team

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Executive Summary

1.1 Background

Monitoring and evaluation are important management functions that detect whether desired results are being achieved. Uganda has developed a six year multi-sectoral malaria reduction strategic plan (UMRSP 2014-2020) with the main goal of reducing malaria burden. The plan has a detailed performance framework which includes high level targets. In the spirit of the "Three Ones" (one coordination, one strategic plan and one M&E plan), different stakeholders should be guided by this plan in the malaria control efforts. This M&E plan must be used in tandem with the malaria strategic plan.

1.2 Process of developing the M&E plan

The development of the M&E plan utilized a mix of methods including review of existing documents including the Uganda Malaria Reduction Strategic Plan 2014-2020 to align to both national and international requirements. The UMRSP 2014-2020 was developed through a highly consultative and participatory process, led by the Ministry of Health. It included the broader in-country RBM partnership (all stakeholders and partners involved in malaria control). WHO/IST provided technical support for the process. The UMRSP contains the strategies, strategic activities and the performance framework. The overriding theme in the development of the M&E plan was to create stakeholders' ownership of the development process and the final product.

1.3 The purpose of the M&E Plan

The aim of this malaria monitoring and evaluation plan is to provide a joint framework for a well-coordinated, systematic and holistic tracking of progress in malaria control, informing refinement and guiding decision-making for program improvement.

The specific objectives objectives of the plan are:

- a) To describe the types of data and data sources, and how data will flow from the source to a central repository and to all relevant stakeholders.
- b) To provide a framework for the collection, processing, reporting, analysis and use of malaria data in Uganda
- c) To provide standard indicators, targets and frequency of reporting in a standardized format for all malaria implementers and stakeholders.
- d) To guide the routine and periodic documentation of planned activities and measure expected outputs, and outcomes and impact when due.
- e) To define implementation arrangements with clear responsibility centres.

1.4 Data sources

The data sources for this M&E plan shall be gotten from routine sources; national disease surveillance; health surveys and operational research. The routine sources include health management information system (HMIS), activity and supervision reports. Under the national disease surveillance sources, data is collected from IDSR, demographic surveillance sites, sentinel sites and from pharmcovigilance exercises.

In addition, the following will provide health survey data: demographic health surveys, malaria indicator surveys, national household surveys, ACT watch and health facility surveys. Operational research data will include data from therapouetic efficacy studies and insecticide susceptibility studies.

1.5 The performace framework and indicator matrix

This plan has got a performance framework with indicators and their targets arranged according to different levels like impact, outrcome, output and process. All indicators have been adapted from international guidance and defined to provide one country understanding so that there is one meaning for each indicator reported on by all stakeholders.

1.6 Implementation arrangements

To create harmony in reporting, the NMCP through the M&E unit shall coordinate this plan. The roles of stakeholders at national, regional, districts, health facilities and community levels have been specified in detail and data flow systems described.

1.7 Dissemination plan

During the implementation of this plan some of the products expected to be produced and disseminated include; monthly monitoring reports, Quarterly RBM meetings reports, Malaria quarterly bulletins, malaria annual malaria reports, World Malaria Report and research findings. These products shall be disseminated through meetings (monthly, quarterly or annual), publications, mass media, and MOH website.

1.8 Budegt implications

The cost of the implementing these M&E activities shall be maintained at about 15% of the total projected budget of the UMRSP.

Introduction

1.9 Background

Monitoring and evaluation are important management functions that detect whether desired results are being achieved. Uganda has developed a six year multi-sectoral malaria reduction strategic plan (UMRSP 2014-2020) with the main goal of reducing malaria burden. The plan has a detailed performance framework which includes high level targets. In the spirit of the "Three Ones" (one coordination, one strategic plan and one M&E plan), different stakeholders should be guided by this plan in the malaria control efforts. This M&E plan must be used in tandem with the malaria strategic plan.

In Uganda, malaria is the leading cause of morbidity and mortality, accounting for 30-50% of outpatient visits at health facilities, 20-30% of all hospital admissions, and 21% of all hospital deaths. Malaria is endemic in the whole country with 95% of the country having stable transmission and the rest unstable. The unstable and epidemic-prone transmission areas are in the highlands of the south- and mid-west, along the eastern border with Kenya, and the Northeast border with Sudan. According to the Malaria Indicator Survey (2009), the average parasite prevalence is 42% ranging from 5% in central region to 63% in mid northern region.

Uganda has developed a malaria reduction strategic plan for the period 2014-2020 and with it this monitoring and evaluation plan. It is expected that this M&E plan will be used as a tool for monitoring and evaluating the implementation of the strategic plan. Also it is expected that all partners will use this plan to guide their implementation reporting, and monitoring and evaluation in malaria control.

1.10 Development Process of the M and E Plan

The development of the M&E plan utilized a mix of methods including review of existing documents including the Uganda Malaria Reduction Strategic Plan 2014-2020 to align to both national and international requirements. The UMRSP 2014-2020 was developed through a highly consultative and participatory process, led by the Ministry of Health. It included the broader in-country RBM partnership (all stakeholders and partners involved in malaria control). WHO/IST provided technical support for the process. The UMRSP contains the strategies, strategic activities and the performance framework. The overriding theme in the development of the M&E plan was to create stakeholders' ownership of the development

process and the final product. In order to achieve the latter and to have stakeholders recognize the document as the one guiding framework, the National Malaria M&E Plan 2014-2020 has been developed through stakeholder participation at various stages. Initially, discussions on challenges affecting implementation and ownership of the previous M&E Plan were discussed during the MTR of the previous Malaria Strategic Plan. Stakeholders were implored to meticulously identify and select priorities for the revised M&E plan based on lessons learnt from implementation of the previous plan. Subsequently, RBM partners provided guidance on selection of key indicators that were prioritized for the UMRSP 2014-2020. Subsequent to this, the NMCP together with the RBM partners held a series of meetings to finalize the results framework. The NMCP together with the RBM partners further prioritized indicators and selected 5 impact and 25 outcome indicators.

The selection of indicators was guided by the following criteria:

- Relevance to the priority strategic actions identified for the UMRSP 2014-2020 objectives
- ii. Indicators that were identified by NMCP together with the RBM partners and deemed as priority to provide information needed to guide decisions on the national response
- iii. Indicators with more focus on the national coordination function
- iv. There is an already existing information base (HMIS) available to provide measurements for these indicators
- v. Indicators needed to satisfy reporting on national and international commitments (World Malaria Reports, SGDs).

The M&E plan details the framework for monitoring and evaluating the UMRSP during the six year period. An effort was made to include all indicators so that all partners in malaria control are guided by one plan.

National Context

The country has a National Health Sector Strategic and Investment plan (NHSSIP) II for all disease programmes including malaria. The UMRSP was developed taking into account priorities identified in the NHSSIP III. In addition, several malaria stakeholders have their own work plans whose strategies are derived from the UMRSP. There is a National M&E plan to which the malaria and M&E plan is linked. The different M&E plan of stakeholders should also be linked to the malaria M&E plan in order to ensure harmonized measurement of progress.

1.11 Coordination of M&E in NMCP

The NMCP together with partners have agreed to work in a coordinated manner and in the spirit of three-ones (one implementation plan, one coordination mechanism and one M&E framework). The contribution of the partners to malaria M&E will be essentially two-fold; ensuring partners' efforts are in line with and coordinated by the Ministry of Health; and developing capacity in malaria M&E in the programme and health sector.

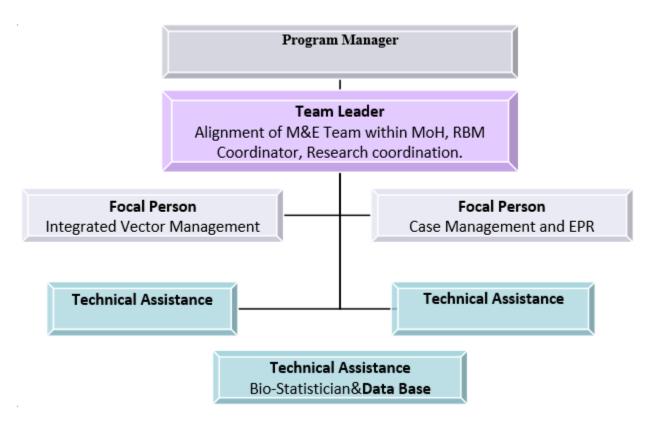
FUNCTIONS OF THE M&E UNIT

- Collect, compile relevant M&E information
- Ensure that all the malaria indicators are captured by the DHIS 2
- Establish and maintain functional linkages with other relevant partners involved in malaria M&E, including the Ministry of Health Resource Centre and other sectors e.g. UBOS
- Analyse and interpret programmatic as well as outcome and impact data
- Prepare and regularly update the national malaria profile
- Provide feedback; prepare quarterly monitoring reports and annual malaria reports and reviews
- Develop capacity at the sub national level in M&E
- Serve as the Secretariat of the M&E working group

The M&E unit within the NMCP is headed by the M&E team leader, who reports to the Programme Manager and is responsible for overall coordination and oversight over the day to day running of the M&E Unit. The Team Leader is assisted by M&E officers, Senior Medical Officers, the Data Manager and other technical officers.

Reports from the M&E unit are discussed at multiple levels including M&E thematic working group and Roll Back Malaria (RBM) Partnership forum (coordinated at the malaria control program level.

Figure 1: Organization of the M&E Unit within NMCP



1.12 Organization of the National Health System

The National Health System (NHS) is made up of the public and the private sectors. The public sector includes all GoU health facilities under the MoH, health services of the Ministries of Defence (Army), Education and Sports, Internal Affairs (Police and Prisons) and Ministry of Local Government (MoLG). The private health delivery system consists of Private Not for Profit (PNFPs) providers, Private Health Practitioners (PHPs), and the Traditional and Complementary Medicine Practitioners (TCMPs).

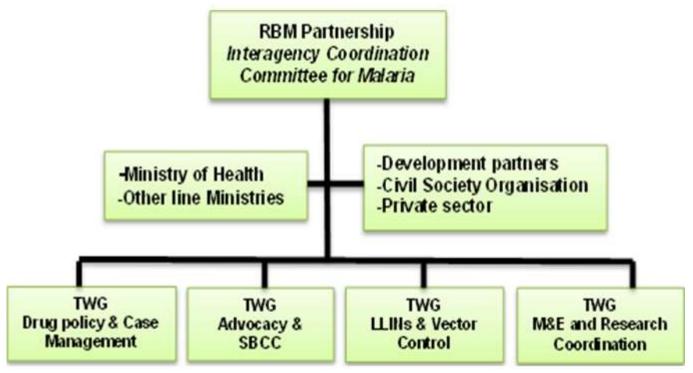
The formal health care system in Uganda is stratified into the National and Regional referral Hospitals (NRH & RRH), with a five-tier system at district level consisting of the General Hospitals (HC V), health centre IV (health sub-district), health centre III (sub-county), health centre II (parish) and the health centre I at village level. In each of the 112 districts the District Health Officer (DHO) is responsible for overseeing all facilities (including pharmacies and drug shops) and health services in the district, including those operated by not-for-profit organizations, partners and the private sector. Some responsibilities are delegated to the

health sub-districts that form the lower level of health services management. Although not a physical structure, the Health Centre I is at community level organized in "village health teams". The traditional and complementary medicine practitioners are organized in several professional organizations and play an important role in malaria control in Uganda.

1.13 Organisation of NMCP

The NMCP is in the Communicable Disease Control Division, which is a division in the Department of National Disease Control in the Directorate of Clinical and Community Health of the MoH. As a national program, it is mandated to coordinate and steer malaria control activities at national and local government, facility and community levels whether provided by public or private providers, and other partners.

Figure 2: NMCP M&E Coordination Mechanism



The mandate of the NMCP is to guide the implementation of national malaria control policies to reduce the malaria burden in Uganda. It is therefore expected to exercise leadership and authority in bringing malaria under control to a point that it no longer constitutes a public health problem in the country through strategic actions.

The NMCP has the linkages with other departments in the MoH, other national agencies and national partnership structures within the RBM partnership. Within the RBM partnership, the M&E unit of NMCP works through the M&E and Research Coordination Thematic Working Group shown in Figure 2.

1.14 Guiding principles and values of the Malaria Strategic and Monitoring plans

In addition to the guiding principles already highlighted in the UMRSP, the following principles and values will guide this M&E plan:

1.14.1 Partnership and multi-sectorial approach

The multi-sectorial approach will develop new partnerships and strengthen existing ones to ensure that malaria interventions are fully implemented at all levels including the community level and in a sustainable way. Efforts shall be made towards joint planning, morinoting and evaluation including reporting between Government and other stakeholders.

1.14.2 Ownership, leadership and political will

The Government will lead the implementation of malaria interventions and will be at the forefront of promoting a sense of stewardship, accountability and transparency.

1.14.3 Evidence-based

All malaria control interventions and strategies will be derived from research findings at international and country level. Their impact will be regularly monitored and evaluated

1.14.4 Integration

Interventions will be delivered in an integrated manner to avoid duplication, improve efficiency and increase coverage levels in order to achieve the intended results.

This means that "the Three Ones Principle" will guide the implementation of this monitoring and evaluation plan.

1.15 Summary of the Malaria Reduction Plan 2014-2020

This M&E Plan works within the NMCP Strategic Plan 2014-2020 whose strategic direction is to rapidly scale-up interventions to universal coverage, achieve consolidated control and set the ground for pre-elimination in the next strategic plan period.

1.15.1 Vision

Malaria free Uganda

1.15.2 Goals

By 2020, reduce

- a) Annual malaria deaths from the 2013 levels to near zero
- b) Malaria morbidity to 30 cases per 1000 population

c) The malaria parasite prevalence to less than 7%

1.15.3 Objectives

1.15.3.1 Objective 1

By 2017, achieve and sustain protection of at least 85% of the population at risk through recommended malaria prevention measures.

This will entail scaling up and sustaining indoor residual spraying (IRS) to 50 districts and sustaining the universal coverage of LLINs. Also capacity will be built in the area of larval source management; as well as in areas of entomology, epidemiological surveillance, insecticide resistance monitoring and vector behaviour and bionomics.

1.15.3.2 Objective 2

By 2018, achieve and sustain at least 90% of malaria cases in the public and private sectors and community level receive prompt diagnosis and treatment according to national policy

This objective will include strengthening health worker capacity for malaria diagnosis and treatment through regular training, clinical audits in the public and private sectors; scaling up and sustaining parasite based diagnosis of malaria at all levels and scaling up and strengtheningiCCM. In addition, management of malaria in pregnancy (MiP) will be strengthened as well as quality assurance and quality control of laboratory diagnosis.

1.15.3.3 Objective 3

By 2017, at least 85% of the population practices correct malaria prevention and management measures

To enhance behaviour change and achieve this objective the NMCP will strengthen national communication framework; develop messages for different communication platforms; strengthen community behavioural change activities for malaria and strengthen social mobilization at national and sub national level. The plan will also create a system for mapping, identifying, and engaging hard-to-reach, minority and socially disadvantaged populations; and improve advocacy for support for malaria control both in public and private sector.

1.15.3.4 Objective 4

By 2016, the programme is able to manage and coordinate multi-sectoral malaria reduction efforts at all levels

The NMCP will strengthen central level advocacy for resource mobilization for malaria control across all sectors; strengthen central and sub-national capacity to deliver malaria control interventions; strengthen the coordination of malaria control activities by all stakeholders including the private sector through national and RBM mechanisms; and strengthen programme capacity for procurement and supply chain management of malaria commodities.

1.15.3.5 **Objective 5**

By 2017, all health facilities and District Health Offices report routinely and timely on malaria programme performance

This objective will focus on strengthening malaria surveillance through HMIS (public and community); conducting regular malaria surveys/evaluations and programme reviews; strengthening data collection from the private sector; and strengthening data demand and use at all levels. Also and operational research agenda for malaria will be developed and implemented. Finally, epidemiological, parasitological, entomological surveillance, drug and insecticide resistance monitoring and pharmacovigilance will be strengthened.

1.15.3.6 Objective 6

By 2017, all malaria epidemic prone districts will have the capacity for epidemic preparedness and response

To achieve this objective malaria epidemic forecasting and preparedness in epidemic prone districts will be strengthened as well as its detection and response.

Figure 3: The logic of the plan

Goals:

- -By 2020, reduce annual malaria deaths from the 2013 levels to near
- -By 2020, reduce malaria morbidity to 30 cases per 1000 population -By 2020, reduce the malaria parasite prevalence to less than 7%

Objective 1

By 2017, achieve and sustain protection of at least 85% of the population at risk through recommended malaria prevention measures

Objective 2

By 2018, achieve and sustain at least 90% of malaria cases in the public and private sectors and community level receive prompt treatment according to national guidelines

Objective 3

By 2017, at least 85% of the population practices correct malaria prevention and management measures

Objective 4 Objective 5 By 2016, the

programme is able to

manage and coordinate

multi-sectoral malaria

reduction efforts at all

levels

By 2017, all health facilities and District Health Offices report routinely and timely on malaria programme performance

Objective 6

By 2017, all malaria epidemic prone districts have the capacity for epidemic preparedness and response

Strategies for Objective (1)

Strategies for Objective (2)

- Scale up and strengthen iCCM

laboratory diagnosis element

all levels

- Scale up and sustain indoor residual spraying (IRS) in 50 districts
- Sustain universal access to LLINs
- Build capacity for larval source management including urban malaria control
- Strengthen capacity in entomology, epidemiological surveillance, insecticide resistance monitoring, vector behaviour and bionomics

- Strengthen health worker capacities for malaria diagnosis

the public and private sectors (PNFPs and clinics)

and treatment through regular training, clinical audits in

- Scale up and sustain parasite based diagnosis of malaria at

 Strengthen the management of malaria in pregnancy (MiP) - Strengthen the quality assurance and quality control of

Strategies for Objective (3)

- Strengthen national communication framework
- malaria
- Create a system for mapping, identifying, and engaging hardto-reach, minority and socially disadvantaged

- Develop messages for different communication platforms
- Strengthen community behavioural change activities for
- Strengthen social mobilization at national and sub national
- populations

Strategies for Objective (4)

- Strengthen central level advocacy for resource mobilization for malaria control across all sectors
- Strengthen central and sub-national capacity to deliver malaria control interventions
- Strengthen the coordination of malaria control activities by all stakeholders including the private sector through national and RBM mechanisms
- Strengthen programme capacity for procurement and supply chain management of malaria commodities

Strategies for Objective (5)

- Strengthen malaria surveillance through HMIS (public and community)
- Conduct program implementation reviews
- Conduct regular malaria surveys/evaluations
- Strengthen data collection from the private sector
- Strengthen data demand and use at all levels
- Strengthen epidemiological, parasitological, entomological surveillance, drug and insecticide resistance monitoring and pharmacovigilance
- Develop and implement an operation research agenda for malaria

Strategies for Objective (6)

- Strengthen malaria epidemic forecasting and preparedness in epidemic prone districts
- Strengthen malaria epidemic detection and response at all levels

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1.16 Risks to the Malaria Strategic Plan and M&E plan implementation

The anticipated risks that should be mitigated for the successful implementation of the UMRSP are:

- 1. Failure to realize the anticipated resources
- 2. Over dependence on donor support to finance crirical M&E activities
- 3. Macro-economic instability especially inflation
- 4. Fragmented programming and implementation
- 5. Non compliance from the private sector to expected reporting requirements especially the lower level outlets
- 6. The risk of increasing resistance to to drugs and insecticides following scale up of interventions.
- 7. Natural disasters

Monitoring and Evaluation Implementation Approach

1.17 Strategic Direction for The Monitoring and Evaluation Strategic Plan

As the country embarks on ambitious targets for malaria control after attaining Universal Coverage, sound monitoring and evaluation of performance and associated impact on malaria burden is essential to guide the interventions carried out within the RBM partnership. It is also important for the NMCP to coordinate partner M&E and define the essential M&E roles necessary for understanding progress in attaining the national targets.

This plan recognizes that the national strategic direction for rapid scale up imparts more demands on M&E implementation especially regarding

- a) Increasing emphasis on gathering of timely, accurate and complete information on coverage and quality of services
- b) Generating detailed information on specific outcome and impact indicators
- c) Monitoring absorption capacity and other critical service delivery support systems (logistics)
- d) Improving the capacity to detect epidemics
- e) Improving the capacity to detect resistance through regular entomological and theraputic surveillance.

This calls for use of standardized measurement instruments across all partners and levels and to strengthen linkages with the Resource Centre to enhance quality of data and its analysis across technical (e.g. IRS, case management, LLIN) and support (e.g. commodities, human resource) interventions.

1.18 The Role of M&E Unit

The role of the M&E unit will be enhanced to cover weaknesses identified in the Malaria Program Review (MPR) and the Monitoring and Evaluation Systems Strengthening Tool (MESST). The unit will work closely with the Resource Centre and Quality Assurance Department in MoH to ensure that all the core indicators of malaria are included in the District Health Management Information System II (DHIS 2) database, which will be accessible to the M&E team, and a biostatistician will be brought on board to improve data analysis and presentation. All data from facility and non-facility based interventions will be deposited in the

data warehouse within the Resource Centre to enhance ease of access and utilization. The unit will spearhead the revitalization of the M&E and research technical working group of the RBM partnership to ensure conformity to the "one M&E plan" system.

The key M&E plan implementation tasks are:

- a) Producing monthly, quarterly and annual results-oriented reports, linked to the NMCP strategic and annual plans.
- b) Ensuring that M&E Units assign one or more positions responsible for statistical production, monitoring and evaluation
- c) Ensuring that malaria data collection systems and tools are in place and functioning
- d) Developing sub-national (regions, districts, HSDs) M&E capacity
- e) Planning and budgeting for monitoring and evaluation annually
- f) Ensuring that RBM meetings have quality actionable performance review reports.
- g) Providing quarterly data and explanatory information on progress against performance indicators to NMCP, RBM, GF, and PMI etc.
- h) Ensuring proper coordination and oversight of M&E activities among the partners in relation to the NMCP strategic, annual plans and guidance from M&E TWG.
- i) Planning and budgeting for evaluations of all partner projects and programs
- j) Utilizing M&E findings to inform NMCP policy, and resource allocation decisions.
- k) Quality Assurance through monitoring of quality of service delivery, client satisfaction and tracking of training processes and quality through training information systems

Maintaining a recommendation implementation tracking plan, which tracks review and evaluation recommendations, agreed follow-up actions, and status of these actions.

Ensuring that complete and approved M&E reports and updated statistical data are made easily available to partners and the public in a timely manner, while ensuring that the sharing of reports respects the Access to Information Act.

1.19 Role of Partners in Achieving One M&E Plan

The M&E plan will be implemented within the framework of mandates in the national health system and calls for a transparent and documented process to ensure input of a broad range of stakeholders in the NMCP monitoring and evaluation. Operationalization of this M&E plan will involve institutions at various levels of the health sector as outlined below.

- a) **Central Level:** This level will be coordinated through the RBM partnership to which all partners, stakeholders and related sectors operating at national level will report.
- b) **Regional Level:** This level will be coordinated by the Regional Performance Monitoring teams (RPMTs) that will liaise between national level and the districts on M&E, support development, implementation, and review of the M&E plans of the districts, including operational research.
- c) Local Government Level: This level will be coordinated by the district health office and will capture all M&E components (public and non government) in districts, subcounties, urban councils and private sector based at district level. All facility and nonfacility based data on malaria activities at district level should tally with what is presented at national level.
- d) **Community Level:** This level includes the LC III councils (sub-county level), parishes, village councils, private sector, CSOs and CBOs. This data should enter the district level.

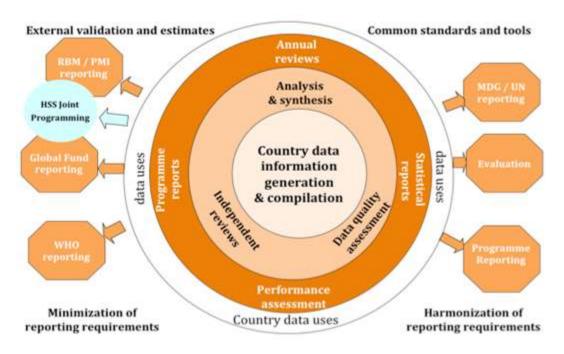
To this effect, all partners are expected to work within one national M&E plan to measure their progress and assess impact. To achieve the one M&E Plan, all partners will need to perform the following:

- a) Align their project objectives and activities with National Malaria Strategic Plan and show the appropriate indicators in the M&E plan that they contribute to.
- b) Facilitate harmony between the NMCP and partner M&E units.
- c) Streamline data flow systems between partners and districts and NMCP to ensure accountability to national goals and targets
- d) Build behaviours, relationships and values towards one M&E plan through ensuring clarity, commonality and commitment to M&E purpose.

1.20 Reporting options to ensure targets and indicators are harmonized

The country-led platform for monitoring and reviews of the health sector are laid out in the HSSIP 2010/11 – 2014/15 M&E plan and this serves as the basis for all M&E related processes and reporting options for NMCP. Figure 4 shows the common M&E platform for NMCP strategic plan with country data generation and use processes in the centre.

Figure 4: Country-led platform for monitoring & review of the NMCP strategic plan (WHO)



Global reporting requirements are based on on-going country processes of data generation, compilation, analysis and synthesis, communication and use for decision making as spelled out in the country compact for implementation of the HSSIP. Options for reporting on malaria data exist and relate to international targets. As a member of the global malaria community, the NMCP is mandated to report into the WHO malaria database that ranks the country on the world malaria scale. Other global requirements include reporting to the Global Fund and RBM. Reporting at national level is in alignment with the national investment plan (NIP), joint assessment framework, HSSIP and specific program/project requirements as stipulated in the M&E Plan for the HSSIP. At the district level, reporting is based on the HMIS, which is the main source of statistical data for the health sector. The HMIS system captures weekly surveillance disease data (form 033b), monthly outpatient attendance (form 105) and inpatient data (form 108), and is supposed to capture community level (VHT) data as well. The HMIS integrates critical malaria indicators such as, number of malaria cases treated, cases parasitologically diagnosed, IPTp, LLINs distributed at EPI and ANCs. Most of the data reported is generated from public and PNFP health facilities, but data is missing from the private, for-profit facilities (PHP) where about 60% of malaria cases are estimated to seek treatment. The Resource Center plans to streamline reporting from all stakeholders by extending the HMIS to PHP health providers who will be reporting through the DHO for onward transmission of their facility data to the resource centre at MoH.

1.21 Existing data quality assurance systems

Since its inception in the NMCP, the M&E unit has not been in position to put data quality assurance (DQA) safeguards in place, due to inadequate funding (funding for the M&E unit, is less than 1% of the NMCP government supported budget). However, efforts to submit quality data have been made. Through the Resource Centre, the DHIS 2 system has been improved to enable entry of data to take place at district and health facility levels. HMIS data from health facilities is usually crosschecked at district level and during area support supervision from the national level. The NMCP has collaborated with the Resource Centre to improve and standardise the data collection tools to ensure quality data is collected. Provisions have been made to support the Resource Centre to conduct DQA activities on a quarterly basis to ensure quality of the DHIS 2 data. Further, standard practice requires that district quarterly support supervisions take place with subsequent HSD supervision of lower HFs within the district. This ensures a step wise approach of checking the data that is ultimately transmitted to the Resource Centre from the sub-national level. Community malaria data, mainly captured by the VHTs, has not been fully embraced in the whole country and provisions have been made to improve on the gains made by the sms based real time data reporting mechanis (m-Trac) at VHT level, to develop a country wide community health management information system (CHMIS), which will provide an opportunity for improving the quality and completeness of data submitted to the district from this team.

1.22 Sector-wide approach and reporting mechanisms among partners

This plan is designed to harness the contribution of partners and other key stakeholders through a coordinated mechanism that not only captures data from partners but also facilitates platforms for reporting. Through regular meetings as stipulated in the AWP 2014/15, reporting mechanisms will be enhanced to enable NMCP to meet national, regional and international targets.

1.23 Plans to strengthen M&E in the MoH

The HMIS at the MOH has been strengthened to expedite timeliness and correctness of the data submitted to the Resource Centre as a way of improving quality. The DHIS 2 electronic software tool has been rolled out throughout the country, which has helped to improve HMIS

data management at all levels of healthcare in the public sector. The MOH is embracing technological tracking of key variables from points of health care in the public sector through m-Trac. This has helped to increase reporting and use of data at district level. NMCP in collaboration with the Resource Centre are coordinating capacity building and training in monitoring and evaluation at district level, especially in the areas of data collection, analysis, interpretation, production of information and use of the data for decision making and programming. The districts have been empowered to take charge of analyzing the data monthly, and providing regular feedback to those generating the data (health facilities that are reporting) and to the public at large through the m-Trac system.

1.24 Dissemination Plan /Information Products

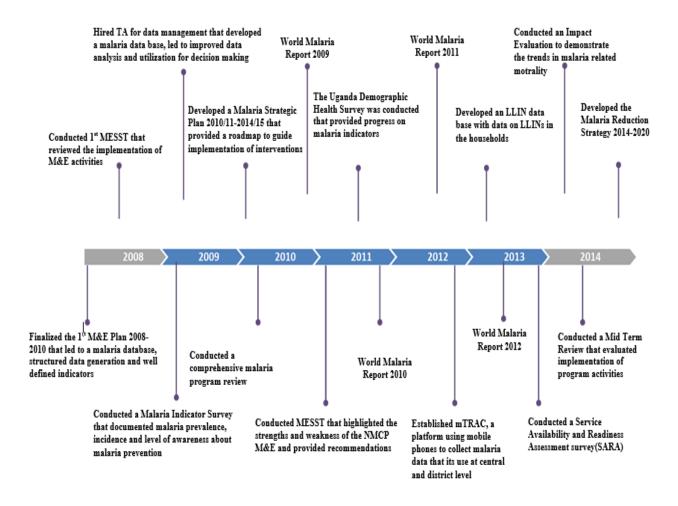
Dissemination of M&E findings is an essential component of good programme management and improvement. Findings will be presented in forms that facilitate understanding by policy-makers, partners and the community. Information on coverage of interventions, current knowledge of malaria risk and any other epidemiological, socio-economic and information relevant for malaria control will also be provided in reports and bulletins. As result of this monitoring and evaluation plan we expect:

- a) Monthly monitoring report: Monthly monitoring reports summarize inputs, outputs and track the implementation of planned activities. This information is used by the NMCP to track progress made in program implementation and is a focus of discussion during monthly meetings;
- b) Quarterly Roll Back Malaria meetings: Every quarter, RBM partners and NMCP team meet and discuss malaria data and trends inlight of the on-going interventions. This provides a forum for interrogating the process, approaches that are being used so as to maximize efficiency and effectiveness;
- c) Bi-annual performance review meetings of the MOH: The NMCP reports to Top Management of the Ministry of Health on the performance against set indicators every 6 months. Data and information on key process and output indicators are reported against set targets. Most of this information is merged from monthly and quarterly reports to provide a comprehensive status report that reflects the efforts and investments over the period of reporting. This information builds into the (annual) health sector review and other related processes;

- d) Joint Annual Review Meeting: The Ministry of Health together with the Health Development Partners conduct joint annual reviews on jointly agreed indicators an annual basis. Malaria indicators are among the selected indicators and progress against set tagets is reviewed annually, which is used to determine cost effectiveness of the investments in Malaria control. The JAR meetings are conducted every year in September with key stakeholders in malaria control and key district officials to review activities of the previous year and to re-prioritiese for the new year. These meetings are used as a window for show-casing best practices to enhance learning;
- e) **Annual malaria report** At the end of every financial year, NMCP produces an Annual Malaria Report that highlights key achievements, constraining factors and the way forward. This report feeds into the National Annual Health Sector Report.
- f) Malaria Quarterly bulletin: This report highlights progress against set indicators on on-going activities by intervention in malaria control and is a basis for discussion in the quarterly RBM meetings. The way forward is used to determine implementation priorities for the next quarter.
- g) **Website:** The website, provides a platform for wider circulation of the progress on malaria interventions against set targets. The malaria quarterly bulletin will be uploaded on the Ministry of Health website to increase the scope of circulation.
- h) **Mass Media:** Weekly epidemiological reports highlighting the number of malaria cases and deaths as a result of malaria are published in the Newspapers every Monday. This provides a platform for dissemination of malaria control messages on a regular basis to the general population.
- i) World Malaria Reports: This report shares the performance of the NMCP in reducing the malaria morbidity and mortality burden and identifies best practices from a global perspective. This report and related information can be accessed on www.who.int/malaria.

This plan has included a dissemination plan which details out the timelines for the different reports and products. (Annex 2 Dissemination Plan)

Figure 5: Achievements in Malaria M&E strengthening



The National Malaria Monitoring and Evaluation Plan

This monitoring and evaluation plan was developed after completion of the UMRSP 2014-2020. The performance framework of the plan and the implementation plan were used to further define indicators and the indicator matrix for monitoring and evaluating the UMRSP 2014-2020.

1.25 Objectives of the National Malaria M&E Plan

The main aim of this malaria monitoring and evaluation plan is to provide a joint framework for a well-coordinated, systematic and holistic tracking of progress in malaria control, informing refinement and guiding decision-making for program improvement.

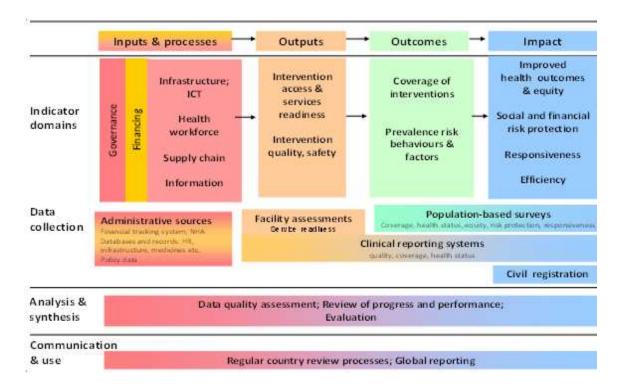
The specific objectives objectives of the plan are:

- a) To describe the types of data and data sources, and how data will flow from the source to a central repository and to all relevant stakeholders.
- b) To provide a framework for the collection, processing, reporting, analysis and use of malaria data in Uganda
- c) To provide standard indicators, targets and frequency of reporting in a standardized format for all malaria implementers and stakeholders.
- d) To guide the routine and periodic documentation of planned activities and measure expected outputs, and outcomes and impact when due.
- e) To define implementation arrangements with clear responsibility centres.

1.26 Standard M&E Framework

Definition of indicators for the monitoring and evaluation of the malaria program is guided by the standard monitoring and evaluation framework shown in Figure 6. It outlines the relationship of inputs, processes, and the resulting outputs, outcomes, and impact in an monitoring and evaluation system.

Figure 6: Standard M&E Framework



1.27 Logical Framework of the Uganda Malaria Strategic Plan 2014-2020

As outlined in the malaria strategic plan the following is the UMRSP 2014-2020 performance framework (logical framework).

Table 1: Performance Framework of the Uganda MSP 2014-20

Indicators	Baseline	Year	Data	2014/	2015/	2016/	2017/	2018/	2019/	2020/
			Source	2015	2016	2017	2018	2019	2020	2021
Goal 1: By 2020, reduce annual malaria mortali	ty from the	2013 le	vel to near	zero.						
1-All-cause under-5 mortality ratio	90	2010	UDHS	56				26		
2-In patient malaria deaths per 100,000 persons	29.93	2013	HMIS	21.73	13.53	5.33	5.33	5.33	5.33	5.33
per year										
3-Proportion of malaria deaths of total deaths.	18.09	2013	HMIS	16.09	14.09	12.09	10.09	9.09	8.09	7.09
Goal 2: Reduce malaria incidence by 80% of the	e 2013 leve	ls								
4-Malaria cases per 1000 persons per year	460	2013	HMIS	416.3	372.6	328.9	285.2	241.5	197.8	154.1
Goal 3: Reduce malaria infection prevalence by	over 85%	of the 2	2010 level							l
5-Malaria parasite prevalence - Proportion of	19%	2014	MIS	9.70%			6.7%			6.7%
children aged 6-59 months with malaria infection										
Objective 1: By 2017, achieve and maintain pro	tection of a	t least	85% of the p	oopulation	at risk t	hrough r	ecomme	nded mal	aria preve	ntion
measures.										
1.1-Proportion of households with at least 1 LLIN	62%	2014	MIS		77%					35%
for every 2 people										
1.2-Proportion of the population that slept under	69%	2014	MIS		55%					75%
LLIN the previous night										
1.3-Proportion of the population protected by IRS	5%	2014	MIS	10%	19%	30%	38%	29%	19%	9%
(in the last 12 months)										
1.4-Proportion of pregnant women attending	50.10%	2013	HMIS	57%	64%	71%	79%	86%	93%	93%
ANC 1 who have received two or more doses of										

Indicators	Baseline	Year	Data	2014/	2015/	2016/	2017/	2018/	2019/	2020/
			Source	2015	2016	2017	2018	2019	2020	2021
IPTp										
Objective 2: By 2018, achieve at least of 90% of	malaria ca	ses in t	he public, pr	vate sec	tors and	commur	ity level	receive p	rompt trea	atment
according to national policy										
2.1-Proportion of suspected malaria cases tested	66%	2013	HMIS	66%	69%	72%	75%	78%	81%	84%
in Public sector										
2.2-Proportion of suspected malaria cases tested	31%	2011	ACTWatch	31%	65%	70%	80%	90%	95%	95%
in Private sector			Household							
			Survey							
2.3-Proportion of suspected malaria cases tested	85%	2014	HMIS	90%	95%	95%	95%	95%	95%	95%
in the community										
2.4-Number of VHTs providing malaria testing at	37,401	2014	HMIS	53,901	73,701	84,701	95,702	106,702	121,002	136,402
community level										
2.5-Proportion of VHTs conducting tests at	44%	2014	HMIS	80%	85%	90%	95%	100%	100%	100%
community level										
2.6-Proportion of malaria negative tests treated	This indica	ator can	not be calcula	ted from	the currer	nt HMIS o	latabase	that does i	not capture	the
with antimalaria medicines	testing sta	tus by p	atient treated.	It will be	monitored	d after op	erationali	izing the ne	ew HMIS re	egister
	which cap	tures the	e testing statu	s for each	case of r	malaria of	ffered trea	atment. Th	is indicato	r will be
	monitored	by a pro	oxy indicator 2	.7.						
2.7-Proportion of suspected malaria cases	53%	2014	HMIS	46%	39%	32%	25%	18%	11%	4%
receiving antimalaria treatment without testing										
2.8-Percentage of HC that reported no stock out	85%	2013	HMIS	86	87%	88%	89%	90%	91%	92%
of first line anti-malarial medicines (ACTs) lasting										

Indicators	Baseline	Year	Data	2014/	2015/	2016/	2017/	2018/	2019/	2020/		
			Source	2015	2016	2017	2018	2019	2020	2021		
more than 7 days in the previous month												
Objective 3: By 2017 at least 85% of the popula	tion has co	rrect b	ehaviours and	practic	es about	malaria	preventi	on and tro	eatment			
3.1-Proportion of under 5 children with confirmed	46.4%	2011	UDHS		64%					81%		
malaria receiving correct treatment within 24												
hours of onset of symptoms												
3.2-Proportion of care givers who know malaria	86%	2009	MIS	90%		90%		90%		90%		
prevention measures												
3.3-Proportion of national health budget	This indic	ator req	uires sub-anal	ysis from	the natio	nal healt	h account	s which h	ave not be	en		
allocated to malaria control	prepared for sometime.											
3.4-Proportion of funds disbursed to the program	77%	2014	Expenditure	100%	100%	100%	100%	100%	100%	100%		
that are spent according to the workplan			analysis									
(Absorption rate)			reports									
3.5-Proportion of actions generated from RBM	50%	2013	RBM	100%	100%	100%	100%	100%	100%	100%		
coordination meetings that are implemented			Meeting									
			Minutes									
Objective 4: By 2016, the programme is able to	manage ar	nd coor	dinate multi-s	ectoral r	nalaria r	eduction	efforts a	t all level	S			
4.1-Proportion of actions generated from RBM	50%	2013	RBM									
coordination meetings that are implemented			Meeting									
			Minutes	50%	70%	80%	100%	100%	100%	100%		
Objective 5: By 2018, all districts report routine	ely on mala	ria prog	gramme perfo	rmance f	or decis	ion maki	ng	ı				
5.1-Proportion of districts submitting quarterly	0%	2013	Quarterly	10%	40%	60%	70%	80%	90%	100%		
malaria reports with in stipulated time frames.			district									

Indicators	Baseline	Year	Data	2014/	2015/	2016/	2017/	2018/	2019/	2020/
			Source	2015	2016	2017	2018	2019	2020	2021
			reports							
5.2-Proportions of health units reporting (public	88%	2013	HMIS	88%	90%	92%	92%	92%	92%	92%
and private)										
5.3-Proportion of partners providing data/reports	0%	2013	Partner	50	100%	100%	100%	100%	100%	100%
to NMCP			Reports							
5.4-Proportion of research agenda studies	50%	2013	Research	70%	90%	90%	90%	90%	90%	90%
conducted and findings disseminated at the			reports							
national malaria forum										
Objective 6: By 2017, all malaria epidemic pron	e districts v	will hav	e the capacit	y for epic	demic pro	eparedne	ess and r	esponse	l	
6.1-Proportion of epidemic prone districts with	0%	2013	EPR	19%	95%	95%	95%	95%	95%	95%
annual epidemic preparedness and response			Annual							
plans.			Plans							
6.2-Proportion of reported epidemics detected on	50%	2013	EPR	80%	80%	90%	100%	100%	100%	100%
time.			Annual							
			Reports							
6.3-Proportion of epidemics responded to	50%	2013	EPR	100%	100%	100%	100%	100%	100%	100%
			Annual							
			Reports							

Malaria Data Collection and Reporting

Data collection for M&E indicators will utilize both qualitative and quantitative methods using standardized data collection tools and analysis techniques. These methods will be routine (activity reports, supervision reports, HMIS); periodic reviews (programme reviews & health facility surveys), population based surveys and research.

The Malaria COMMUNITY Community Surveys strategic plan MIS, UDHS, ACT Watch Health Facility Surveys shall be Service Provision supported and implemented Other Complementary ROUTINE Pharmacovigilance | HMIS Therapeutic Efficacy Testing by several Sources of ICCM Sentinel sites and DSS IRS Monitoring System Activity reports **NMCP** actors or LLIN Monitoring System Insecticide Susceptibility Data IDSR stakeholders M-Trac Operational research

Figure 7: Sources of data

be generated. Some of these stakeholders shall include the community, public health facilities, private sector, NGOs, line ministries, government bodies, autonomous bodies, bilateral and multilateral agencies. All these stakeholders, depending on their different roles, will generate information that this plan will monitor and evaluate. There shall be four main sources of data: routine sources e.g. activity and supervision reports plus HMIS; national disease surveillance systems; periodic household surveys, and operational research.

1.28 Routine data collection

where data will

1.28.1 Health Management Information System

The HMIS serves as the primary clinical services monitoring system for the MoH. The Resource Centre is the repository of all key malaria information reported. HMIS data is collected on special standard forms and is disaggregated by sex and age (under 5 and

above 5 years). The collected malaria variables include suspected malaria cases at OPD, number of suspected malaria cases tested by microscopy and RDT, number of confirmed malaria cases at OPD, number of inpatient malaria cases, number of clinical and confirmed inpatient malaria cases, number of malaria deaths, antenatal attendance, IPT1 and IPT2. The HMIS also collects information on stock out of first and second line anti-malarial medicines and other health management indicators.

The transformation into the DHIS2 and its integration with m-TRAC has greatly improved data capture, collation and analysis. The mTRAC system utilizes mobile phones to submit real-time data (using Rapid SMS technology) to transmit data to the central servers. It supplements DHIS2 by tracking stocks of medicines and RDTs including consumption patterns.

1.28.2 Activity Reports

Monitoring and evaluation of the MSP shall cover all stages of the performance framework from inputs, processes, outputs, outcomes and impact. Activity reports compiled immediately after an activity will be collected from relevant implementers and data synthesized for use at NMCP level. These activity reports shall cover all intervention areas like ITN procurement and distribution, IRS activities, case management related activities like trainings etc. The focal point officers at NMCP will be responsible for coiling the activity reports and submitted to the M&E unit for further analysis.

1.28.3 Supervision reports

NMCP conducts periodic integrated support supervision for malaria. Support supervision is conducted at the district level by the DHT. In addition, the Ministry of Health also conducts joint support supervision with government development partners annually. All the information gathered will be analysed for use by the programme.

1.29 National Disease Surveillance System

1.29.1 Integrated Disease Surveillance (IDSR)

Adopted in 2001, Integrated Disease Surveillance and Response in Uganda is the weekly epidemiological surveillance reporting system that reports on diseases of epidemic potential. This system provides data on malaria cases and deaths on a weekly basis. The Resource Centre has expanded the IDSR to incorporate more data on malaria.

1.29.2 Sentinel sites

Sentinel sites were first established by the Uganda Malaria Surveillance Project (UMSP) and the MOH in 2001 to determine the efficacy and safety of antimalarial drugs in epidemiologically different sites. Currently, the sites provide data on malaria cases presenting at the health facility and data on case management practices. There are 26 inpatient and 26 outpatient sites, located in Kabale, Kanungu, Tororo, Mubende, Apac, and Jinja. This data is reported through the routine HMIS, but also through a monthly report, disseminated to malaria stakeholders and an open-access website (www.umsp.muucsf.org).

1.29.3 Demographic Surveillance Site

The Demographic Surveillance Site (DSS) is operated by Makerere University in Mayuge and Iganga districts. It monitors a defined population measuring births, deaths, and the most common causes of child mortality including malaria attributable deaths.

1.29.4 Pharmacovigilance

The pharmacovigilance system in Uganda is not well developed. Based on the WHO model, the National Drug Authority of Uganda (NDA) has designed a generic form to collect passive reporting data on all medicines. However, the reporting of adverse drug reactions (ADR) as part of the pharmacovigilance system in Uganda is not fully functional, nor utilized. Partners have supported the development and limited roll out of

the system, providing training, forms and equipment, but reporting has been limited and follow up remains difficult as reports often come late and cases, thus, difficult to identify.

1.30 Health Surveys

The three main population based surveys conducted in Uganda are; Demographic and Health Survey, National Household Survey and Malaria Indicator Survey. These surveys are mainly carried out by Uganda Bureau of Statistics (UBOS) with support from partners and provide useful measures of household-based coverage indicators for gauging impact of interventions.

1.30.1 Demographic and Health Survey

The Uganda Demographic and Health Survey (DHS) is conducted everyfour years. It includes a malaria module with standardized questions on coverage of key interventions.

1.30.2 The National Household Survey

Uganda conducts a National Household Survey every three (3) years. It is a population-based and national surveys. Apart from economic indicators, collects and reports on a number of malaria indicators. Over the period covered by this plan, two household surveys will provide data on various malaria indictors.

1.30.3 Malaria Indicator Survey

The first Malaria Indicator Survey in Uganda was done in 2009 and will be conducted again in 2014 and every other three years.

1.30.4 ACTwatch Study

ACTwatch Study is also population based, the first having been conducted in 2008 and another 2011 aimed at generating evidence for policy makers on methods to increase availability and decrease the consumer price of quality assured ACTs in both private and public sectors. It collects information on health seeking behaviour and appropriate treatment (ACTs).

1.30.5 Small Scale Studies

Smaller scale household surveys are conducted periodically when there is a specific question requiring an answer to quickly gauge the impact of interventions while awaiting other surveys like MIS. For example, post ITN distribution or post IRS surveys.

1.30.6 Health Facility Surveys

In 2007, the Uganda Service Provision Assessment (SPA) Health Facility Survey was undertaken. This assessment is a nationwide facility-based survey designed to collect information on the availability and quality of reproductive and child health care, infectious disease (malaria, TB and HIV/AIDS) services provided to men, women and children in public, private and not for- profit health facilities throughout the country.

1.31 Operational research

1.31.1 Therapeutic efficacy testing

TET has been conducted regularly to monitor and assess the efficacy of various antimalarial drugs. The results from these studies have been used to inform treatment policy change. These studies are conducted every two years to ensure resistance to antimalarials is identified in a timely manner.

1.31.2 Insecticide Susceptibility studies

Uganda has had a long history of insecticide use for both public health and agriculture. As such, insecticide resistance testing is critical to ensure that effective chemicals are used for malaria vector control. Resistance testing has been conducted every two years (starting in 2009 and again in 2011) across the country testing all WHOPES approved chemicals for IRS and ITNs. These studies have led to changes in the insecticide used for IRS and also informed the development of a rational vector control strategy for the country.

Table 2: Detailed Action Plan and Budget

Activities	Responsible	Partners		14/	15			15/	′16			16/	17			17	/18			18/	/19			19	/20		Budget (in USD)
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Printing & diss	semination																										8,530,636
Print 500 copies of the M&E Plan	МОН	WHO/RBM/SMP			Х																						6,000
Central level dissemination meeting for Strategic plan and M&E plan	мон	RBM/SMP					х							Х													114,356
Review and disseminate HMIS tools	МОН	МОН				х				Х																	100,700
Dissemination of the Malaria Indicator Survey Reports	МОН	мон						х												х							96,000
Capacity building					<u> </u>																						
Training of staff in HMIS	МОН	GF			Х				Х				Х				Х				Х				Х		2,764,200
Routine DQA training for M&E staff	МОН	GF				х			Х			Х				х				х				х			5,449,380
Activity monito	ring																										13,517,406
Conduct baseline and post-line	NMCP, Abt	MOH/PMI				х				Х				Х				Х				Х				Х	467,143

Activities	Responsible	Partners		14	l/15			15	5/16			16	6/17			17	7/18			18/	3/19			19	9/20		Budget (in USD)
1			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4													
entomological surveys																											
Conduct regular integrated/joint supportive supervision	МОН	MOH/PMI	x	Х	х	Х	х	х	x	х	x	x	x	x	х	Х	х	х	Х	x	х	х	Х	х	Х	x	107,700
Conduct Supervision and inspection in public, private and private- not-for-profit sectors)	мон	МОН/РМІ	х	х	х	х	х	х	х	х	х	х	х	х	x	х	х	х	х	х	х	х	х	х	х	х	2,590,600
Conduct post market surveillance of ACTs and RDTs	МОН	NDA	х	x	x	x	x	x	x	x	х	x	х	x	х	x	х	x	x	х	x	x	x	x	x	x	
Conduct mentorship and supervision of VHTs by assigned health workers	мон	MOH/DLGs	х	х	Х	Х	Х	х	х	х	х	х	х	х	x	х	х	х	Х	х	х	Х	х	х	Х	х	4,355,222
Conduct quarterly stock status review meetings	МОН	MOH/Pharm Division/NMCP	х	х	Х	х	х	х	x	x	х	х	х	х	Х	х	х	х	Х	х	Х	х	х	х	Х	х	12,000
Monitor availability and pricing of malaria commodities at private sector health facilities	мон	MOH/ACT- watch			х				х				x				x				x				X		811,429

Activities	Responsible	Partners		14	/15			15	/16			16/	17			17	/18			18	/19			19	/20		Budget (in USD)
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Conduct malaria sentinel surveillance	МОН	UMSP	Х	х	х	х	Х	х	х	Х	Х	Х	Х	х	х	Х	Х	Х	Х	х	х	х	х	Х	х	Х	282,000
Supervise, monitor and evaluate IRS activities	МОН	MOH/PMI/Abt				х				X				х				х				х				Х	4,271,312
Conduct post epidemic evaluation meetings of malaria epidemics	мон	мон/wно				х				Х				х				х				х				Х	620,000
Epidemiologic	al monitorir	ng																									1,498,286
Conduct vector mapping nationwide	МОН	MOH/DFID/PMI								Х									х								467,143
Conduct parasite mapping nationwide	МОН	MOH/DFID/PMI								X									X								467,143
Conduct detailed mapping and malaria epidemiological profiling within major towns and cities	мон	MOH/DFID/PMI		х				х				х				Х				х				х			282,000
Develop/update stratification map using routine data	МОН	MOH/DFID/PMI										Х				Х				х				Х			282,000

Activities	Responsible	Partners		14/	/15			15	5/16			16	6/17			17	7/18			18/	/19			19	9/20		Budget (in USD)
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Implementation	n reviews																										2,016,000
Conduct quarterly in-country RBM partnership coordination meetings	мон	MOH/RBM	x	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	x	х	х	х	х	х	x	450,000
Conduct quarterly malaria thematic working group meetings	МОН	MOH/RBM	x	x	Х	x	Х	х	Х	х	х	Х	Х	x	х	Х	х	х	х	x	х	х	Х	Х	Х	x	450,000
Hold malaria policy review meetings bi- ennually	МОН	MOH/RBM								х								х								х	450,000
Conduct annual review and planning meetings	МОН	MOH/RBM			Х				х				х				х				х				Х		450,000
Conduct mid-term and end-term reviews of the strategic plan	мон	MOH/RBM											x													x	216,000
Conduct bi-weekly situation room teleconferencing	NMCP	мон/wно	x	x	Х	x	x	x	X	x	x	x	x	x	х	x	x	Х	х	x	X	X	x	x	x	x	0
Strengthening	malaria inf	ormation sys	tem																								765,900
Develop/adapt appropriate supervision and monitoring tools for	МОН	мон				х				х																	0

Activities	Responsible	Partners		14	/15			15	/16			16/	/17			17	/18			18	/19			19/	/20		Budget (in USD)
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
private health providers (refer to dissemination of HMIS tools)																											
Collect, collate and report malaria data through HMIS	МОН	МОН	х	х	х	х	X	х	х	х	х	Х	X	х	х	х	х	х	х	х	х	X	х	х	X	Х	765,900
Evaluations an	d surveys																										6,680,000
Monitoring coverage and use of LLINs at household level – post distribution and utilization survey (Covered by MIS & UDHS)	МОН	MOH/DFID/PMI		X				X				х								х							0
Conduct health facility assessments	МОН	MOH/DFID/PMI																									0
Conduct health facility surveys including SARA	МОН	MOH/DFID/PMI											Х				х				х				Х		680,000
Conduct Malaria Indicator Surveys	МОН	MOH/DFID/PMI		Х								Х								Х							6,000,000
Conduct UDHS	МОН	MOH/DFID/PMI		Х																				Х			0

Activities	Responsible	Partners		14	/15			15	/16			16	/17			17	/18			18/	/19			19/	/20		Budget (in USD)
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
National Household Surveys	МОН	MOH/DFID/PMI													Х												0
Strengthening	data collec	tion, collation	ı, an	alys	is ar	nd us	se																				18,100
Adapt and disseminate HMIS tools to facilitate private sector reporting	МОН	MOH/DFID/PMI	х	х	х	х	х	x	x	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	х	x	0
Collect, collate and report weekly malaria surveillance data (m-Trac)	МОН	MOH/DFID/PMI	х	х	х	х	х	x	х	х	х	х	х	х	Х	х	х	х	х	х	х	х	х	х	х	х	0
Produce quarterly bulletins	МОН	MOH/DFID/PMI	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	0
Produce annual malaria report	МОН	MOH/DFID/PMI				Х				Х				Х				Х				Х				Х	18,100
Quality Assura	ance and Qu	uality control																									9,491,800
Conduct wall bio- assays to assess the quality of spray (refer to row 12 post-IRS entomological survey).	МОН	MOH/DFID/PMI																									0

Activities	Responsible	Partners		14	/15			15	/16			16/	17			17	/18			18/	19			19/	/20		Budget (in USD)
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Screen quality of antimalarials on the market (refer to row 15 Post Market surveillance of	МОН	MOH/DFID/PMI																									0
ACTs)																											
Conduct continuous RDT Field quality monitoring at health facility	МОН	MOH/DFID/PMI	x	X	x	x	X	x	X	X	X	X	Х	X	X	Х	X	X	Х	Х	Х	X	X	X	X	Х	0
Conduct periodic WHO Malaria Microscopy competence assessments for Lab Techs	МОН	MOH/DFID/PMI																									0
Conduct post shipment quality checks at port of entry of Malaria RDTs	МОН	MOH/DFID/PMI																									0
Conduct Blood slide validation at reference/District laboratories	МОН	MOH/DFID/PMI																									0
Conduct data quality assessments/audits	МОН	MOH/DFID/PMI	Х	Х	х	Х	X	х	Х	X	Х	х	Х	Х	Х	X	Х	X	Х	Х	Х	X	Х	Х	Х	Х	9,491,800

Activities	Responsible	Partners		14	1/15			15	/16			16/	′17			17	/18			18/	/19			19/	/20		Budget (in USD)
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
Operational Re	esearch																										2,819,800
Define a malaria operational research agenda	МОН	MOH/DFID/PMI			Х				х				Х				Х				Х				х		14,400
Conduct Market research	МОН	MOH/DFID/PMI																	 								0
Assess impact of BCC Outsource – ipsossynovate	МОН	MOH/DFID/PMI																									0
Monitoring field efficacy of LLINs including longevity	МОН	MOH/DFID/PMI						х								Х								х			0
Conduct entomological studies to establish vector susceptibility for qualified insecticides	МОН	MOH/DFID/PMI																									0
Explore other chemo-preventive interventions such malaria vaccine subject to available evidence	МОН	MOH/UMSP																									0
Conduct Operational research to improve uptake and guidelines for	МОН	мон/																									0

Activities	Responsible	Partners		14	/15			15/	/16			16	/17			17	/18			18/	/19			19	/20		Budget (in USD)
			Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
malaria RDTs																											
Conduct																											
Therapeutic	MOH	MOH/UMSP			Х							Х								Х							1,567,800
Efficacy studies																											
Conduct vector																											
bionomics studies																											
(refer to row 12	MOH	MOH/PMI/Abt																									055 600
post-IRS	IVIOH	MOH/PIVII/ADI																									955,600
entomological																											
survey).																											
Conduct insecticide																											
susceptibility	MOH	MOH/DFID/PMI								Х								Х								Х	282,000
studies																											
Conduct operations																											
Research on iCCM																											
KAPS, diagnostics,	MOH	MOH/DFID/PMI	Х	Х	Х	Х	Х	Х	Х	Х	Х		~	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	
ANC, LLINs, ACT	IVION		^		_ ^	^	^	^	^	^	_ ^	Х	Х	^	^	^	^	^		^	^	^	_ ^	^	^	^	
availability, efficacy																											
studies																											

Table 3: Indicator Reference Matrix

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
Impact indicators							
All cause under 5 mortality ratio	The probability of dying before the 5 th birthday,	Region	UDHS	Every 5	National	NMCP,	
	expressed per 1,000 live births			years		PMI/USG	Current is the DHS (2011)
	Unit of measure: rate					& UBOS	
2. In-patient malaria deaths (per	Numerator: Number of Inpatient malaria deaths x	Age		Monthly	Public & PNFP	NMCP/MOH	
100,000 per year)	100,000	Sex	HMIS				
	Deniminator: Total Population						
3. Proportion of malaria deaths of total	Numerator: Number of Inpatient malaria deaths	Age	HMIS	Monthly	Public& PNFP	NMCP/MOH	
deaths	Deniminator: Total inpatient death	Sex					
4. Proportion of children under five (0	Numerator: Number of children aged 0-59 months						Surveys conducted during the high-
- 59 months) with malaria parasites	found with malaria parasites at the time of the survey	None	MIS	3yrs	National	NMCP &	transmission season for malaria
(Parasite prevalence)	Denominator: Number of children aged 6-59 months in					UBOS	
	the survey sample, multiply by 100						
	Unit of measure: Percentage						
5. Reported Malaria cases (per 1,000	Numerator: Number of both suspected + confirmed	Age	HMIS 105	Biannual	Public & PNFP	NMCP, RC	Computation: Numerator (a):
persons per year)	malaria cases per year X 1000.	Sex					Number of both suspected +
	Denominator: Total Population	Geography					confirmed malaria cases from HMIS
							(Row 27 from HMIS 105,
	Unit of measure: Rate						Denominator (b): Total midyear
							population (all ages).
							Multiply (a/b) by 1000
6. Confirmed malaria cases	Number of confirmed malaria cases during one year,	Age	HMIS 105	Biannual	Public & PNFP	NMCP, RC	
(microscopy or RDT) per 1,000	expressed per 1000 persons per year.	Sex					
persons per year (or annual malaria		Geography					
incidence)	Numerator (a): Number of confirmed malaria cases						
	Denominator (b): Total midyear population (all ages).						
	Unit of measure: Rate						
7. Inpatient malaria cases (per 1,000	Numerator: total inpatient malaria admissions. (N)	None	HMIS 108	Biannual	Public & PNFP	NMCP, RC	Monthly Health Unit In-Patient
persons per year);	Denominator: total population (D)						Report HMIS Form 108 routinely
	multiply this by 1000						collates information on in-patient
	i.e. N/D*1000						malaria admissions and deaths by

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
	Unit of measure: rate						diagnosis (Row 20).
O Proportion of skilders O 50 months	Annual in the state of the stat	0					
8. Proportion of children 0 –59 months	Anaemia is when haemoglobin level < 11 g/dl.	Severity:	MIC				
old with anaemia	Numerator: Number of Children With Anaemia	Sever (< 8	MIS	0	0	Mall NIMOD	
	Denominator: Total Children 0 – 59 Surveyed	g/dl)		3yrs	General	MoH, NMCP	
		Moderarte (9 – 11			population		
		g/dl)					
Percentage of OPD visits attributed	Numerator: Number of OPD visits attributed to malaria	Sex				MoH, NMCP	
to malaria	X 100		HMIS 105	Monthly	Public, PNFP &	WIOH, NIVICE	
to maiana	Denominator: Total OPD visits	Age	HIVIIS 105	Monthly	PFP		
	Denominator. Total OPD VISITS				FFF		
Outcome Indicators							
10. Proportion of deaths attributed to	Numerator: Number of deaths at health facilities among	Age	HMIS 108	Quarterly,	Monthly	NMCP	Deaths can be from health facilities
malaria among children under five	children under five with confirmed malaria diagnosis	Gender		Annual	summary of HF		or other deaths recorded in HMIS.
admitted at the health facilities due	during the reporting quarter				registers.		Malaria should be recorded as the
to malaria (Malaria Case fatality)							primary cause of death
	Denominator:Total number of confirmed malaria						Will depend on quality of reporting
	diagnosis admissions in children under five reported at						from higher level facilities
	the health facility during the reporting quarter						
	Unit of measure: Percentage						
11. Proportion of health facilities that	Numerator: Number of health facilities that reported no			monthly	Monthly	NMCP	
reported no stock outs of first line	stock outs of first line anti-malarial medicines (ACTS)	Ownership	HMIS 105		summary of HF		
anti-malarial medicines(ACTS)	lasting more than 1 day in any reporting period				registers,		
lasting more than 7 days in the		Level			cumulative		
previous month	Denominator: Total Number of functional Health						
	facilities						
	Unit of measure: Percentage						
12. Proportion of under 5 children with	Numerator: Number of Children under 5 with confirmed				Monthly	NMCP	
confirmed malaria receiving	malaria receiving treatment within 24 hours of onset of	Gender	HMIS	Monthly	summary of HF		
treatment within 24 hours from	fever	Age	UDHs	Every 5 yrs	registers		
onset of fever	Denominator : Number of Children under 5 with		MIS	Every 3 yrs			
	confirmed malaria		NHS	Every 4 yrs			

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
13. Percentage of outpatient malaria	Numerator: Number of OPD malaria cases who	Age	HMIS 105	Monthly	Monthly	NMCP	
cases that received an appropriate	received an appropriate antimalarial treatment				summary of HF		
antimalarial treatment according to	according to national policy	Sex			registers		
national policy	Denominator: Number of OPD malaria cases						
	Unit of measure: Percentage						
14. Confirmed malaria cases that	Numerator: Number of malaria cases that received	Sex	HMIS 105	monthly	Monthly	NMCP	
received first-line antimalarial	first-line antimalarial treatment according to national				summary of HF		
treatment according to national	policy X 100	Age			registers		
policy	Denominator: Number of malaria cases that received						
	any first-line antimalarial treatment						
	Unit of measure: Percentage						
15. Proportion of severe malaria cases	Numerator: Number of severe malaria cases treated	Sex	HMIS 105	monthly	Monthly	NMCP	
treated according to national policy	according to national policy at health facilities X 100	Age			summary of HF		
at health facilities		Sector			registers		
	Denominator: Number of severe malaria cases treated	(public,					
	at health facilities	private or					
	Unit of measure: Percentage	community)					
16. Proportion of suspected outpatient	Numerator:Number of outpatients with fever seen by				Monthly		
malaria cases with a laboratory	health workers who had microscopy and RDT in	None	HMIS 105	Quarterly	summary of	NMCP	
confirmation for children at the	OPD Denominator: Total number of outpatients with				HF registers		
health facility. (Test Ratio)	fever seen at health facilities						
	Unit of measure: Percentage						
17. Proportion of suspected malaria	Numerator: Number of suspected malaria cases that are						
cases that are tested	tested	Age	HMIS	Monthly	Monthyl	NMCP/MoH	
	Denominator Total number of suspected malaria cases	Sex					
	Unit of measure: Percentage						
18. Proportion of suspected malaria	Numerator: Number of suspected malaria cases that are						
cases tested in the public sector	tested in the public sector	Age	HMIS	Monthly	Monthyl	NMCP/MoH	
	Denominator Total number of suspected malaria cases	Sex					
	in the public sector						
	Unit of measure: Percentage						
19. Proportion of suspected malaria	Numerator: Number of suspected malaria cases that are						

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
cases tested in the private sector	tested in the private sector	Age	HMIS	Monthly	Monthyl	NMCP/MoH	
	Denominator Total number of suspected malaria cases	Sex					
	in the private sector						
	Unit of measure: Percentage						
20. Proportion of suspected malaria	Numerator: Number of suspected malaria cases that						
cases tested in the community	are tested in the community	Age	HMIS	Monthly	Monthyl	NMCP/MoH	
	Denominator: Total number of suspected malaria	Sex					
	cases in the community						
	Unit of measure: Percentage						
21. Proportion of clinical malaria cases	Numerator: Number of clinical malaria cases that are						
that are confirmed by	confirmed by microscopy/RDT	None	HMIS 105	Quarterly	Monthly	NMCP	
microscopy/RDT at health facility	Denominator: Number of OPD malaria cases treated at				summary of		
level	the health facilities				HF registers		
	Unit of measure: Percentage						
22. Malaria test positivity rate.	Numerator: Number of positive Malaria cases	Under 5	HMIS 105	Quarterly	Monthly	NMCP	This is confined to POD laboratory
	Denominator: Total number of malaria tested	yrs, 5 yrs.			summary of		tests only (passive detection) and will
		and above			HF registers		monitor impact on malaria
	Unit of measure : Percentage						transmission. The indicator will also
							differentiate between annual TPR
							and monthly/peak season TPR.
23. Number of admissions of children							Cases with a primary diagnosis of
under five due to malaria							malaria at discharge (and not
	Number Inpatient malaria admissions in children under	None	HMIS 108	Quarterly,	Monthly	NMCP	admission). It is assumed that all
	five			Annual	summary of		cases would have had a parasite-
					HF registers		based test for malaria (microscopy
	Unit of measure: Number						and/or RDT) and discharge
							diagnosis was based on test results.
							It will monitor impact of program on
							severe disease.
24. Proportion of admissions due to	Numerator: suspected malaria admissions	under 5	HMIS 108	Quarterly	Monthly	NMCP	Cases with a primary diagnosis of
malaria		yrs, 5 yrs			summary of		malaria at discharge (and not
	Denominator: Total number of admissions in the	and above			HF registers		admission). It is assumed that all
	respective age group						cases would have had a parasite-

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
							based test for malaria (microscopy
	Unit of measure: Percentage						and/or RDT) and discharge
							diagnosis was based on test results.
							It will monitor impact of program on
							severe disease.
25. Proportion of women who received	Numerator: Number of women who received two or					NMCP	Currently over 90% ANC coverage
2(+) doses of IPTp through ANC at	more doses of recommended antimalarial drug	None	HMIS 105	Monthly	Monthly		for the first visit and 60% second
the health facility	treatment as IPTp through ANC			Quarterly	summary of		visit. At least 80% of pregnant
	Denominator: Total number of women presenting to			Annual	HF registers		women attending ANC should
	ANC for 1st visit.						receive at least two doses of IPT
	Unit of measure: Percentage						
26. Proportion of women attending	Numerator: Number of women who received three or					NMCP	
antenatal clinics who received three	more doses of recommended antimalarial drug	None	HMIS 105	Monthly	Monthly		
or more doses of intermittent	treatment as IPTp through ANC			Quarterly	summary of		
preventive treatment for malaria				Annual	HF registers		
	Denominator: Total number of women presenting to						
	ANC for 1st visit.						
	Unit of measure: Percentage						
27. Proportion of health facilities with no	Numerator: Number of health facilities that reported no			monthly	Monthly	NMCP	
stock outs of recommended drug for	stock outs of recommended drug for IPTp lasting more	Ownership	HMIS 105		summary of HF		
IPTp during the last one month	than 1 day in any reporting period				registers,		
		Level			cumulative		
	Denominator: Total Number of functional Health						
	facilities						
	Unit of measure: Percentage						
28. Proportion of women who gave birth	Numerator:Number of women at risk for malaria who	None	UDHS	3/5 years	Survey	NMCP, PMI	
in the last 2 years and received 2(+)	received two or more doses of a recommended		MIS			UBOS	
doses of IPTp during their last	antimalarial drug treatment to prevent malaria during						
pregnancy	their last pregnancy that led to a live birth within the last						
	two years						
	Denominator: Total number of women surveyed at risk						

years Unit of measure: Percentage 29. Proportion of households with at least one ITN It least one ITN Denominator: Number of households surveyed Unit of measure: Percentage 30. Proportion of population that slept under LLIN the previous Years Unit of measure: Percentage None UDHS Survey NMCP/PMI/ UBOS None UDHS Survey NMCP/PMI/ UBOS None UDHS Survey NMCP/PMI/ UBOS	
Unit of measure: Percentage 29. Proportion of households with at least one ITN It least one ITN Denominator: Number of households surveyed that own at least 2 under LLIN the previous Unit of measure: Percentage None UDHS 3/5 years Survey NMCP/PMI/ UBOS Survey NMCP/PMI/ UBOS NMCP/PMI/ UBOS NMCP/PMI/ UBOS NMCP/PMI/ UBOS	
29. Proportion of households with at least one ITN Numerator: Number of households surveyed that own at least one ITN Denominator: Number of households surveyed Unit of measure: Percentage 30. Proportion of population that slept under LLIN the previous None UDHS 3/5 years Survey NMCP/PMI/ UBOS NMCP/PMI/ UBOS NMCP/PMI/ UBOS NMCP/PMI/ UBOS NMCP/PMI/ UBOS	
least one ITN at least one ITN Denominator: Number of households surveyed Unit of measure: Percentage 30. Proportion of population that slept under LLIN the previous At least one ITN Denominator: Number of households surveyed Unit of measure: Percentage None UDHS 3/5 years Survey NMCP/PMI/ UBOS Suggested upper appropriate cover NMCP wants to look the surveyed wants to look the surveyed appropriate cover NMCP wants to look the surveyed wants to look the s	
Denominator: Number of households surveyed Unit of measure: Percentage 30. Proportion of population that slept under LLIN the previous Denominator: Number of households surveyed Unit of measure: Percentage NMCP wants to look the survey of the survey o	squito net is the
Denominator: Number of households surveyed Unit of measure: Percentage 30. Proportion of population that slept under LLIN the previous Denominator: Number of households surveyed Unit of measure: Percentage NMCP wants to look the survey of the survey o	limit for assessing
30. Proportion of population that slept under LLIN the previous Numerator: Number of households that own at least 2 None UDHS 3/5 years Survey NMCP/PMI/UBOS	rage. However, the
under LLIN the previous ITNs UBOS	ook at 1 net.
MIS MIS	
night(disaggregated by sex) Denominator: Number of households surveyed	
Unit of measure: Percentage	
31. Proportion of households with Numerator: Number of households with sufficient nets Age DHS 3/5 years Survey NMCP/PMI/	
universal coverage of ITNs (1 net/2	
people) Denominator: Number of households surveyed	
Unit of measure: Percentage	
32. Proportion of children under five Numerator: Number of children under five years who None UDHS, MIS 5 years Survey NMCP/PMI/	
years old who slept under an LLIN have slept under an ITN the previous night (before the	
the previous night survey)	
Denominator: Total number of children under five years	
who slept in surveyed households the previous night	
Unit of measure: Percentage	
33. Proportion of targeted risk groups Numerator: Number of persons in a given risk receiving Pregnant	
receiving LLINs women women	
Denominator: Total population in a given risk group Children	
receiving LLINs <5,	
Unit of measure: Percentage Migrants,	
etc.	
34. Proportion of population at risk Numerator: Number of persons in a given risk receiving	
potentially covered by LLINs LLINs	
distributed Denominator: Total population in a given risk group	
that have LLINs	
Unit of measure: Percentage	
35. Proportion of households with at Numerartor: Number households with at least one LLIN None MIS Annual Population NMCP/Partn	

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
least one LLIN for every two people	for every two people and/or sprayed by IRS within the					ers	
and/or sprayed by IRS within the	last 12 months X 100						
last 12 months	Denominator: Total households surveyed						
	Unit of measure: Percentage						
36. Proportion of population that slept	Numerator: Number of the population that slept under	Age	UDHS, MIS	3/5 years	Survey	NMCP/PMI/	
under an LLIN the previous night	an ITN the previous night (before the survey)	pregnancy				UBOS	
	Denominator: Total population in surveyed households	status,					
	the previous night	geographic					
	Unit of measure: Percentage	al location					
37. Proportion of pregnant women that	Numerator: Number of pregnant women who slept		UDHS, MIS	3/5 years	Survey	NMCP/PMI/	
slept under an LLIN the previous	under an ITN the previous night (before the survey)					UBOS	
night	Denominator: Total number of pregnant women who	None					
	slept in surveyed households the previous night						
	Unit of measure: Percentage						
38. Proportion of people aware of	Numerator: Number of people interviewed aware of	By ITN,	UDHS, MIS	3/5 years	Survey	NMCP/	-
malaria prevention measures	malaria prevention measures	IRS, IPTp				PMI /	
	Denominator: Number of people interviewed in the					UBOS	
	survey						
	Unit of measure: Percentage						
39. Proportion of targeted houses	Numerator: Number of occupied houses in the IRS	None	IRS partners	Annually	Review of	NMCP/ PMI	This will be done by district and
sprayed with a residual insecticide	program target area adequately sprayed with a residual				activity reports		disaggregated by rural urban
in the last 12 months	insecticide in the last 12 months						
	Denominator: Total number of targeted houses in						
	target area						
	Unit of measure: Percentage						
40. Proportion of persons protected	Numerator: number of persons who slept in a house	Pregnant	IRS partner	Biannual	Activity Report	NMCP/PMI	
after IRS spraying	that was sprayed	women	report, NMCP		reviews		
	Denominator: Total targeted population	Children	activity				
	Unit of measure: Percentage	under 5	reports				
41. Proportion of children under five	Numerator: Number of children under five who had a			3/5 years		NMCP,	
years old with fever in the last two	fever in the two weeks prior to a survey who received	Sex	UDHS, MIS		Survey	Partners,	
weeks who received treatment with	ACTs for treatment within 24 hours of onset of fever	Sector	HMIS		HMIS	UBOS	
ACTs according to national policy	Denominator: Total number of children under five who	(Public,					

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
within 24 hours of onset of fever	had a fever reported for the two weeks prior to a survey	Private or					
	Unit of measure: Percentage	community)					
42. Proportion of children under five	Numerator: Number of children under five who had a	None	UDHS, MIS	3/5 years	Survey	NMCP/PMI/	This indicator will be obsolete as
years old with fever in the last two	fever in the two weeks prior to a survey who received					UBOS	coverage of ACTs in the private
weeks who received treatment with	any antimalarial drug						sector increases
any antimalarial drug	Denominator: Total number of children under five who						
	had a fever reported for the two weeks prior to a survey						
	Unit of measure: Percentage						
43. Proportion of health facilities with no	Numerator: Number of health facilities with no reported	By first line	Support	Quarterly,	Support	NMCP	Based on national definition of stock
reported stock outs of the nationally	stock outs of nationally recommended ACTs (1st line	and second	supervision		supervision		out
recommended anti malarial drugs	anti malarial) lasting one week or longer at any time	line	and /or HMIS		reports, review		
lasting more than 1 week at anytime	during the past three months	antimalarial			of health facility		
time during the past 3 months	Denominator : Total number of (Public +PNFP) health	s			records.		
(public and PNFP); or during the	facilities reporting;						
last month (HMIS)	if done through support supervision denominator: total						
	number of HF supervised.						
	Unit of measure: Percentage						
44. Proportion of people aware of the	Numerator: Number of people aware of the correct	None	UDHS, MIS	3/5 years	Survey	NMCP/PMI/	Will also benefit from sub national
correct treatment for malaria	treatment for malaria(ACTs)					UBOS	SBCC M&E data
	Denominator: Total number of people surveyed						
	Unit of measure: Percentage						
45. Proportion of caregivers who know	Numerator: Number of caregivers who know that	None	UDHS	3/5 years	Survey	NMCP/UBO	Will also benefit from sub national
that children under five with fever	children under five with fever should be seen by a health		MIS			S	SBCC M&E data
should be seen by a health provider	provider within 24 hours of fever onset						
within 24 hours of fever onset	Denominator: Total number of people surveyed (in						
	households with children)						
	Unit of measure: Percentage						
46. Proportion of caregivers who sought	Numerator: Number of caregivers who sought care						
care from a health provider for a	from a health provider for a fever	None	UDHS	3/5 years	Survey	NMCP/UBO	
fever	Denominator: Total number of caregivers covered by		MIS			S	
	the survey who had a child with fever						
Output and Process							
47. Administrative universal LLIN	Numerartor: Number of LLIN distributed	Age					

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
coverage	Denominator: (Total population)/2	Administrati	UDHS				
		ve or	MIS	3/5 years	Survey	NMCP/UBO	
		geographic				S	
		area					
48. Number of targeted structures	Number of occupied houses in the IRS program target	None	IRS partner	Biannual	Activity Report	NMCP/PMI	Data confirmed by district reports
sprayed with IRS	area sprayed with a residual insecticide		report, NMCP		reviews		
	Unit of measure: Number		activity				
			reports				
49. Number of SP doses distributed to	Number of SP doses distributed to ANC clinics	None	Pharmacy	Quarterly,	Report reviews	NMCP/	-
ANC clinics	Unit of measure: Number		division	Cumulative		NMS/SURE	
			updates				
			reports				
50. Number of pregnant women	Number of pregnant women receiving IPTp (2,3) in past	By dose	HMIS	Quarterly	Monthly	NMCP/	Calculation based on expected
receiving IPTp (2,3 or 4)	year				summary of	Partners	pregnancies
	Unit of measure: Number				HF registers	PMI/	
51. Number of uncomplicated malaria		Age					
cases reported from Public sector		Sex					
(includes PNFP)		Sector					
		(public,					
		PNFP, PFP					
		or					
		Community					
)					
52. Proportion of the annual need of	Numerator: Number of ACTs procured		Pharmacy			Pharmacy/N	
ACTs procured	Denominator: Total annual need of ACTs	Sector	division	Biannual	Reports	MCP/partner	
	Unit of measure: Percentage		updates			s	
			report				
53. Number of ACTs distributed to	Number of ACTs issued to health facilities	None	Stock and	Bi-monthly	Health Facility		
health facilities			delivery				
			report				
54. Proportion of VHTs without stock	Numerator: Number of VHTs without stock out of ACTs						
out of ACTs for more than 1 week in	for more than 1 week in the last one month						
the last one month	Denominator: Total number of VHTs						

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
55. Number of fever cases receiving	Number of fever cases receiving subsidized branded	None	Activity	Quarterly	Activity	NMCP/partn	Dependent on continuation of AMFm
subsidized branded ACTs through	ACTs through the private sector		reports/surve		reports/survey	ers	after pilot phase
the private sector	Unit of measure: Number		у				
56. Number of targeted health facilities	Number of targeted health facilities supervised in case	None	NMCP	Quarterly	Activity Report	NMCP/partn	Includes bot public and private
supervised in case management	management		activity		reviews	ers	facilities
			reports /				
			partner				
			reports				
57. Number of VHTs trained in home-	Number of heath workers trained in HBMF and/or ICCM	None	NMCP	Quarterly	Activity Report	NMCP/	Targets all VHTs in the country and
based management of fever or	Unit of measure: Number		activity		reviews	partners	refresher training
ICCM			reports /				
			training				
			reports				
58. Proportion of VHTs that received	Numerator: Number of VHT supervised in the last 3	None	NMCP	Quarterly	Malaria focal	NMCP/	
supervision in the last 3 months	months		reports		persons	partners	
	Denominator: Number of VHT working				Activity Report		
	Unit of measure: Number				reviews		
59. Proportion of VHTs without stock	Numerator: Number of VHTs without stock outs of	None	VHT quarterly	Quarterly	Activity Report	NMCP/	
outs of ACTs for more than 1 week	ACTs for more than 1 week		reports		reviews	partners	
	Denominator: Number of VHTs working						
	Unit of measure: Percentage						
60. Number of RDT units distributed		Sector	Stock status			Pharmacy	
health facilities	Number of RDT units distributed health facilities	(public,	Reports	Bi-monthly	Reports	Division	
	Number	PNF and					
		community)					
61. Proportion of HF's conducting high	Numerator: Number of HF's with QA/QC above 80%		Laboratory		Activity reports	CPHL/	QA system exists and
quality microscopy/RDT tests	Denominator: Number of HF's with QA/QC done	Sector	QA/QC			NMCP	
	Unit of measure: percentage		Support			reports	
			supervision				
			reports				
62. Proportion of primary schools with	Numerator: Number of schools in the targeted districts	None	NMCP	Quarterly	Review of	NMCP/	
at least two teachers trained in	with at least 2 teachers trained in malaria prevention		activity		Activity reports	Partners	
malaria prevention and control	and control		reports /		from Assistants		

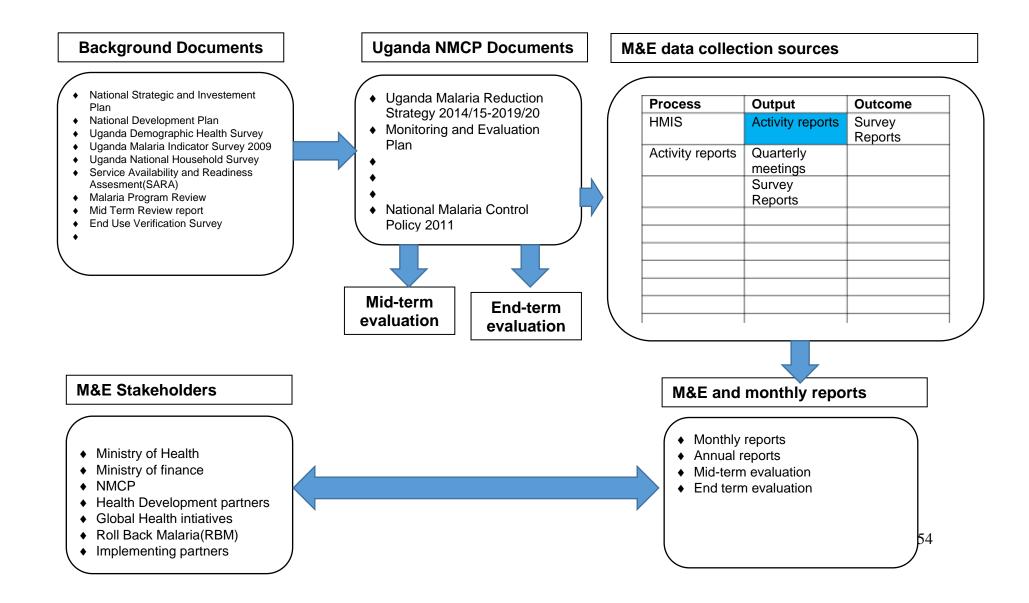
Denominator: Number of schools in the targeted district Unit of measure: Percentage Nome More of quarterly review meetings to monitor the planned activities Unit of measure: Number of states of the second planned activities Unit of measure: Number of thill submitting timely reports according on the planned activities Unit of measure: Number of thill submitting timely reports according to national guidelines Total Number of thill submitting timely reports according to national guidelines Total Number of thill submitting timely reports according to national guidelines On national guidelines Unit of measure: Number of thill submitting timely reports according to national guidelines Total Number of tunctional Units Unit of measure: Number and Percentage Nome Nome Nome Nome Nome Nome Nome No		STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
Unit of measure: Percentage Number of quarterly review meetings to monitor the planned activities Unit of measure: Number meetings to monitor the planned activities Unit of measure: Number of HMIS units submitting timely reports according to national guidelines Experiment of International Units Unit of measure: Number of HMIS units submitting timely reports according to national guidelines Experiment of International Units Numerator: Total of targeted health facilities supervised Denominator: Total international Units Experiments according to national guidelines Unit of measure: Number of International Units Numerator: Number of International Units None None	PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
Number of quarterly review meetings to monitor the planned activities Number of quarterly review meetings to monitor the planned activities Number of quarterly review meetings to monitor the planned activities Number of quarterly review meetings to monitor the planned activities Vinit of measure: Number of the MIS reports according to national guidelines Sector Missing timely reports according to national guidelines Total Number of functional Units Sector Missing timely reports according to national guidelines Total Number of functional Units Sector Missing timely reports according to national guidelines Sector Missing timely reports reports according to national guidelines Sector Missing timely reports reports according to national guidelines Sector Missing timely reports reports according to national guidelines Sector Missing timely reports		Denominator: Number of schools in the targeted district		training				
meetings to monitor the planned activities unit of measure: Number of the MIS units submitting timely reports according units submitting timely reports according to national guidelines. Numerator: Number of Indicational Units Numerator: Total of targeted health facilities supervised per interest. Number of targeted health facilities supervised. Numerator: Number of targeted health facilities supervised unit of measure: Number of targeted health facilities supervised. Numerator: Number of targeted health facilities supervised unit of measure: Number and Percentage None the DHT in the last of months from the date of the last national supervised in the District/Unit of measure: Percentage Numerator: Number of health facilities in the District/Unit of measure: Percentage None the last six months None the last		Unit of measure: Percentage		reports				
activities Unit of measure: Number of HMIS reporting units submitting timely submitting timely reports according to national guidelines Total Number of functional guideline	63. Number of quarterly review	Number of quarterly review meeting to monitor the	None	NMCP	Quarterly	Activity Report	NMCP/Partn	Central level meetings involving
A. Proportion of HMIS reporting units submitting timely reports according to national guidelines to national guidelines Total Number of functional Units 5. Proportion of targeted health facilities supervised be national supervised within the stipulated time frames 6. Proportion of targeted health facilities supervised Unit of measure: Number of targeted health facilities supervised beath facilities supervised within the stipulated time frames 6. Proportion of targeted health facilities supervised beath facilities supervised by the DHT in the last 6 months from the date of the national supervision visit Denominator: Total number of health facilities in the District/Unit of measure: Percentage Numerator: Number of DHT supervised by NMCP in the last 6 months from the date of the last six months 18. Proportion of district submitting quarterly malaria reports within the stipulated time frames 19. Proportion of district submitting thelf proports in the Submitting timely reports in the Submitting timely reports according to national supervision of district submitting timely reports according to national supervision of targeted health facilities supervised by NMCP in the last in a control of district submitting quarterly malaria reports within the stipulated time frames Denominator: Total number of district submitting timely reports within the stipulated time frames Denominator: Total mumber of district submitting timely reports within the stipulated time frames Denominator: Total mumber of district submitting timely reports within the stipulated time frames Denominator: Total mumber of districts submitting timely reports within the stipulated time frames Denominator: Total mumber of districts submitting timely reports within the stipulated time frames Denominator: Total mumber of districts submitting timely reports within the stipulated time frames Denominator: Total mumber of districts submitting timely reports within the sipulated time frames Denominator: Total mumber of districts submitting timely	meetings to monitor the planned	planned activities		activity		reviews	er	zonal coordinators
submitting timely reports according to national guidelines Total Number of functional Units Total Number of functional Units Numerator: Total of targeted health facilities supervised Denominator: Total of largeted health facilities Unit of measure: Number of targeted health facilities Unit of measure: Number of health facilities supervised Denominator: Total number of health facilities Unit of measure: Number of health facilities Unit of measure: Number of health facilities aupervised by the DHT in the least 6 months from the date of the national supervision visit Denominator: Total number of DHT supervised by the Data function of DHT supervised in the last famonths of the last famonths Numerator: Number of DHT supervised by the DHT in the last of months from the date of the last national supervision visit Denominator: Total number of districts submitting quarterly malaria reports within the stipulated time frames Proportion of district submitting quarterly malaria reports within the stipulated time frames Proportion of district submitting timely reports None None	activities	Unit of measure: Number		reports				
to national guidelines Total Number of functional Units Numerator: Total of targeted health facilities supervised facilities supervised Denominator: Total of targeted health facilities supervised Unit of measure: Number of targeted health facilities Unit of measure: Number of health facilities supervised by the DHT in the last 6 months from the date of the national supervision visit Denominator: Total number of health facilities in the District/Unit of measure: Unit of measure: Percentage None	64. Proportion of HMIS reporting units	Numerartor: Number of HMIS units submitting timely				Facility		
Numerator: Total Number of targeted health facilities supervised Denominator: Total Number of targeted health facilities supervised Denominator: Total Number of targeted health facilities II, HC III, HC III	submitting timely reports according	reports reports according to national guidelines	Sector	HMIS reports	Monthly		Resource	
Numerator: Total of targeted health facilities supervised Denominator: Total Number of targeted health facilities supervised Denominator: Total Number of targeted health facilities supervised Unit of measure: Number and Percentage Unit of measure: Number of health facilities supervised by the DHT in the last 6 months from the date of the national supervision visit Denominator: Total number of health facilities in the District/Unit of measure: Percentage Unit of measure: Vision	to national guidelines	Total Number of functional Units					Center/NMC	
facilities supervised Denominator: Total Number of targeted health facilities Unit of measure: Number and Percentage 16. Proportion of HFs supervised in the last is months In the last six months Numerator: Number of health facilities supervised by the DHT in the last 6 months from the date of the national supervision visit Denominator: Total number of health facilities in the District/Unit of measure: Percentage Numerator: Number of DHT supervised in the last 6 months from the date of the national supervision visit Denominator: Terd number of health facilities in the District/Unit of measure: Percentage Numerator: Number of DHT supervised by NMCP in the last 6 months from the date of the last national supervision visit Denominator: Total number of districts Unit of measure: Percentage None None NMCP Supervision NMCP Supervision Reports None NMCP Supervision Reports NMCP/Partn Feviews							Р	
Unit of measure: Number and Percentage BC Proportion of HFs supervised in the last 6 months from the date of the national supervision visit Denominator: Total number of health facilities in the District/Unit of measure: Percentage 77. Proportion of DHT supervised in the last 6 months from the date of the last national supervision visit Denominator: Total number of DHTs supervised by NMCP in the last 6 months from the date of the last national supervision visit Denominator: Total number of DHTs supervised by NMCP in the last 6 months from the date of the last national supervision visit Denominator: Total number of districts Unit of measure: Percentage None	65. Proportion of targeted health	Numerator: Total of targeted health facilities supervised	Level (HC		Quarterly,	Activity Report	NMCP/Partn	
hospital reports Numerator: Number of health facilities supervised by the DHT in the last 6 months from the date of the national supervision visit Denominator: Total number of health facilities in the District/Unit of measure Unit of measure: Percentage	facilities supervised	Denominator: Total Number of targeted health facilities	II, HC III,	NMCP	cumulative	reviews	er	
None NMCP Supervised in the last six months None NMCP Supervision reports None NMCP Supervision reviews and supervision. NMCP/Partn reviews and supervision for supervision reports. NMCP/Partn reviews and supervision for supervision reports. NMCP/Partn reviews and supervision for supervision for supervision reports. NMCP/Partn reviews and supervision for supervision reports. NMCP/Partn reviews and supervision.		Unit of measure: Number and Percentage	HC IV or	supervision				
the DHT in the last 6 months from the date of the national supervision visit Denominator: Total number of health facilities in the District/Unit of measure: Percentage 77. Proportion of DHT supervised in the last 6 months from the date of the last national supervision visit Denominator: Total number of districts submitting quarterly malaria reports within the stipulated time frames 18. Proportion of district submitting timely HMIS reports 19. Proportion of district submitting timely HMIS reports 10. Total number of district submitting timely reports timely HMIS reports 10. Total number of district submitting timely reports timely HMIS reports 10. Total number of district submitting timely reports timely HMIS reports 10. Total number of district submitting timely reports timely HMIS reports 10. Total number of district submitting timely reports timely HMIS reports 10. Total number of district submitting timely reports timely HMIS reports 10. Total number of district submitting timely reports timely HMIS reports 10. Total number of district submitting timely reports to the last action the date of the last national supervision visit 10. NMCP 10. NMCP Bi annually Activity Report reviews 10. This will be dependant on RC efforts 10. This will be dependent on RC efforts			hospital	reports				
national supervision visit Denominator: Total number of health facilities in the District/Unit of measure Unit of measure: Percentage Numerator: Number of DHT supervised in the last 6 months from the date of the last national supervision visit Denominator: Total number of districts Unit of measure: Percentage None N	66. Proportion of HFs supervised in the	Numerator: Number of health facilities supervised by	None	NMCP	Quarterly,	Activity Report	NMCP/Partn	This will be part of the routine
Denominator: Total number of health facilities in the District/Unit of measure Unit of measure: Percentage Numerator: Number of DHT supervised in the last 6 months from the date of the last national supervision visit Denominator: Total number of districts Unit of measure: Percentage None	last six months	the DHT in the last 6 months from the date of the		supervision	cumulative	reviews	er	quarterly supervision.
District/Unit of measure Unit of measure: Percentage Numerator: Number of DHTs supervised in the last 6 months from the date of the last national supervision visit Denominator: Total number of districts Unit of measure: Percentage None None Supervision reports None Supervision of districts submitting quarterly malaria reports within the stipulated time frames None Supervision Resource Supervision Reviews Resource Supervision Reviews Resource Supervision Reviews		national supervision visit		reports				
Unit of measure: Percentage Numerator: Number of DHTs supervised in the last six months Numerator: Number of DHTs supervised by NMCP in the last six months Denominator: Total number of districts Unit of measure: Percentage None SB. Proportion of districts submitting quarterly attituded time frames SP. Proportion of district submitting timely reports Denominator: Number of districts expected to submitting timely reports SB. Proportion of district submitting timely Forts Denominator: Number of district submitting timely reports SB. Proportion of district submitting timely		Denominator: Total number of health facilities in the						
Numerator: Number of DHT supervised in the last 6 months from the date of the last national supervision visit Denominator: Total number of districts Unit of measure: Percentage Numerator: Number of districts submitting quarterly malaria reports within the stipulated time frames Denominator: Number of districts submitting timely reports None		District/Unit of measure						
the last six months the last 6 months from the date of the last national supervision visit Denominator: Total number of districts Unit of measure: Percentage None supervision reports None supervi		Unit of measure: Percentage						
supervision visit Denominator: Total number of districts Unit of measure: Percentage 8. Proportion of districts submitting quarterly malaria reports within the stipulated time frames Denominator: total number of districts expected to submit quarterly malaria reports within the stipulated time frames Numerator: Number of districts expected to submit quarterly malaria reports within the stipulated time frames None HMIS Quarterly, Resource Centre Resource Centre Reports Report NMCP/Partn reviews NMCP/Partn reviews RAC/ This will be dependant on RC efforts NMCP/Partn reviews RE/ This will be dependant on RC efforts NMCP/Partn reviews RE/ This will be dependant on RC efforts	67. Proportion of DHT supervised in	Numerator: Number of DHTs supervised by NMCP in		NMCP	Bi annually	Activity Report	NMCP/Partn	Dependant on functionalization of
Denominator: Total number of districts Unit of measure: Percentage Numerator: Number of districts submitting quarterly malaria reports within the stipulated time frames Denominator: total number of districts expected to submitting timely reports timely HMIS reports Unit of measure: Percentage Numerator: Number of districts submitting quarterly malaria reports within the stipulated time frames Numerator: Number of districts expected to submit quarterly malaria reports within the stipulated time frames Numerator: Number of district submitting timely reports Unit of measure: Percentage Numerator: Total number of districts Numerator: Number of district submitting timely reports Centre NumCP Numerator: Number of district submitting timely reports Centre Numerator: Number of district submitting timely reports Centre Numerator: Total number of districts Number of district submitting timely reports Numerator: Total number of districts Centre Numerator: Number of district submitting timely reports Numerator: Number of district submitting timely reports Centre Numerator: Number of district submitting timely reports Numerator: Number of district submitting timely reports Centre Numerator: Number of district submitting timely reports Numerator: Number of district submitting timely reports Centre Numerator: Number of district submitting timely reports Numerator: Number of district submitting timely repo	the last six months	the last 6 months from the date of the last national	None	supervision		reviews	er	Zonal Offices.
Unit of measure: Percentage Numerator: Number of districts submitting quarterly malaria reports within the stipulated time frames Denominator: total number of district submitting timely reports within the stipulated time frames Proportion of district submitting timely HMIS reports Unit of measure: Percentage Numerator: Number of districts submitting quarterly malaria reports within the stipulated time frames Numerator: Number of district submitting timely reports None HMIS Resource Centre NMCP Bi annually Activity Report reviews NMCP/Partn er NMCP/Partn er NMCP/Partn er NMCP/Partn reviews		supervision visit		reports				
Numerator: Number of districts submitting quarterly malaria reports within the stipulated time frames Denominator: total number of districts expected to submit quarterly malaria reports within the stipulated time frames Proportion of district submitting timely reports NMCP Supervision reports NMCP/Partn reviews Ports NMCP/Partn reviews Ports NMCP/Partn reviews Ports NMCP/Partn reviews Ports None None None None None HMIS Resource Centre NMCP/Partn reviews Ports NMCP/Partn reviews		Denominator: Total number of districts						
quarterly malaria reports within the stipulated time frames Denominator: total number of districts expected to submit quarterly malaria reports within the stipulated time frames Proportion of district submitting timely HMIS reports This will be dependant on RC efforts Proportion of district submitting timely reports Denominator: Total number of districts Den		Unit of measure: Percentage						
Stipulated time frames Denominator: total number of districts expected to submit quarterly malaria reports within the stipulated time frames None HMIS Quarterly, Activity Report This will be dependant on RC efforts Percentage RC/ This will be dependant on RC efforts Resource Centre Centre	68. Proportion of districts submitting	Numerator: Number of districts submitting quarterly	Level	NMCP	Bi annually	Activity Report	NMCP/Partn	
submit quarterly malaria reports within the stipulated time frames Numerator: Number of district submitting timely reports timely HMIS reports Denominator: Total number ofdistricts Unit of measure: Percentage None HMIS Quarterly, Resource Centre Quarterly, Cumulative Resource Centre Resource Centre Resource Centre Resource Centre	quarterly malaria reports within the	malaria reports within the stipulated time frames	Ownership	supervision		reviews	er	
time frames Numerator: Number of district submitting timely reports timely HMIS reports Denominator: Total number of districts Unit of measure: Percentage None HMIS Quarterly, cumulative Resource Centre RC/ This will be dependant on RC efforts NMCP/Partn er	stipulated time frames	Denominator: total number of districts expected to		reports				
Proportion of district submitting timely reports timely HMIS reports Unit of measure: Percentage Numerator: Number of district submitting timely reports None HMIS Quarterly, Resource Centre Quarterly, Cumulative Centre RC/ NMCP/Partn er		submit quarterly malaria reports within the stipulated						
timely HMIS reports Denominator: Total number of districts Unit of measure: Percentage Resource Centre Resource cumulative reviews NMCP/Partn er		time frames						
Unit of measure: Percentage Centre er	69. Proportion of district submitting	Numerator: Number of district submitting timely reports	None	HMIS	Quarterly,	Activity Report	RC/	This will be dependant on RC efforts
	timely HMIS reports	Denominator: Total number ofdistricts		Resource	cumulative	reviews	NMCP/Partn	
O Proportion of partners submitting Numeratory Number of partners submitted reports No. NMCD/DDM Questory DDM Provides and Inc. 1994		Unit of measure: Percentage		Centre			er	
o. Proportion of partners submitting Number of partner submitted reports Number of partners. Will also	70. Proportion of partners submitting	Numerator: Number of partner submitted reports	None	NMCP/RBM	Quarterly	RBM minutes	RBM	Focuses on key partners. Will also

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
reports	Denominator: Total Number of partners		partnership			secretariat	be presented as percentage when
			records			/NMCP	denominator is determined
	Unit of measure: Number						
71. Proportion of periodic reports	Numerator: Number of reports submitted on time	National,	NMCP	Quarterly	NMCP Report	NMCP/RBM/	Dependant on strengthening M&E
submitted timely at the respective	Denominator: Number of periodically required reports	Internation	records		records.	GF	unit in NMCP
level	Unit of measure: percentage	al			Review		
					meeting reports		
72. Number of Quarterly malaria	Number ofquarterly malaria performance reports	None	NMCP	Quarterly	NMCP records	NMCP	This will be done quarterly
performance reports produced	produced		records				
	Unit of measure: Number						
73. Number of weekly malaria	Number of weekly malaria surveillance reports produced	None	NMCP	Weekly	NMCP records	ESD/NMCP	This will be done quarterly
surveillance reports produced	Unit of measure: Number		records				
74. Proportion of budgeted funds	Numerator: Funds received	None	NMCP	Quarterly	NMCP records	NMCP	Heavily dependent on GF grants
received	Denominator: Funds budgeted		records				
	Unit of measure: Percentage						
75. Proportion of received funds spent	Numerator: Funds spent	None	NMCP	Quarterly	NMCP records	NMCP	
	Denominator: Funds received		records				
	Unit of measure: Percentage						
76. Proportion of epidemic prone	Numerator: Number of districts with rapid response	None	NMCP	Quarterly,	NMCP Report	NMCP/WHO	-
districts with rapid response team	team trained in malaria EPR		records/	cumulative	records.	/ IDSR/PMI	
trained in malaria EPR	Denominator: Number of epidemic prone districts		training	, Annually	Review		
	Unit of measure: Percentage		reports		meeting reports		
77. Proportion of epidemics detected on	Numerator:Number of epidemics detected on time	None	District	Annual	NMCP Report	NMCP/WHO	
time	Denominator : Total number on epidemics		reports		records	/IDSR/PMI	
	Unit of measure: Percentage						
78. Proportion of epidemic prone	Numerator:Number of epidemic prone districts with	None	NMCP	Annual	NMCP Report	NMCP/WHO	
districts with rapid response team	Rapid response teams trained in malaria EPR		reports/ESD		records	/IDSR/PMI	
trained in malaria EPR	Denominator : Total number on epidemic prone districts		reports				
	Unit of measure: Percentage						
79. Proportion of HF with up-to-date	Numerator: Number of HFs with up-to-date normal	None	NMCP	Quarterly,	NMCP Report	NMCP/WHO	
normal channels	channels		records	cumulative	records.	/ IDSR	
	Denominator: Number of health facilities in epidemic			, Annually	Review		
	prone districts				meeting reports		

	STANDARD INDICATOR DEFINITION AND UNIT OF	Disaggreg			Level of	Responsibl	
PERFORMANCE INDICATOR	MEASUREMENT	ated by	Data Source	Frequency	measurement	e entity	Comments
	Unit of measure: Percentage						
80. Proportion of districts with EPR	Numerator: Number of district with EPR committees	None	NMCP	Quarterly	Activity Report	NMCP/WHO	
committees meeting at least once in	meeting at least once in a quarter		Supervision		reviews	/ IDSR	
a quarter	Denominator: Number of epidemic prone districts		reports				
	Unit of measure: Percentage						

Annexes

1.32 Annex 1: Malaria Monitoring and Evaluation Information Map



1.33 Annex 2: Dissemintation Plan

		20	014			20)15			20	16			20	17			20	18			2019				20
	Product		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1	Quarterly																									
2	supervisory reports Quarterly Malaria Thematic Working Group reports																									
3	Annual Health Sector Reports reports																									
4	Quarterly malaria bulletin																									
6	Publication of at least 2 papers in international journals																									
7	World Malaria Report data																									
8	RBM Dash Board																									
9	Survey Reports																									
10	Malaria Impact Evaluation Report																									
11	IRS Report																									