



REPUBLIC OF THE GAMBIA

NATIONAL MALARIA POLICY

2021 – 2025

“Malaria Free Gambia”



JUNE 2020



The Gambia

National Malaria Policy

2021-2025

“Malaria Free Gambia”

June 2020

Foreword

Acknowledgements

Table of Content

Foreword	2
Acknowledgements	3
Abbreviations	6
1.0 Introduction.....	7
1.1 Country Characteristics.....	7
Geography	7
Administrative Structure	7
Economy	7
Demography	8
1.2 Health System	9
1.2.1 MoH Organisational Structure	9
1.2.2 Service Provision	10
Primary Level (Village Health Service-VHS).....	10
Secondary level.....	11
Tertiary level.....	11
1.3 Health Financing	11
2.0 Malaria Situation in The Gambia	12
2.1 Environmental and climatic factors	12
2.2 Population at risk.....	12
2.3 Stratification and Risk Mapping.....	12
2.4 Parasites and Vector species	13
Parasite.....	13
Vector species and distribution.....	13
2.5 Disease trends.....	14
2.6 Key strategies for malaria control	14
2.7 Malaria programme performance.....	15
3.0 Bottlenecks Analysis – Using the Malaria Programme Review Report.....	16
3.1 Programme Management	16
3.3 Prevention of Malaria in Pregnancy	16
3.4 Case Management	16
3.5 Community Case Management	16
3.6 Procurement and Supply and Management (PSM).....	16
3.7 Surveillance, Monitoring, Evaluation and Operational Research (SMEOR)	16
4.0 Vision, Guiding Principles, Goal, Objectives.....	18
4.1 Vision: A malaria-free Gambia.....	18
4.2 Guiding Principles	18
Universal access for the population at risk	18
Client satisfaction	18
Equitable access	18
Evidence-based.....	18
Partnership	18
4.3 Goal:.....	18
4.4 Development Milestones (Outcomes).....	19
4.5 Objectives	20
Access to Services and Care	20

	Advocacy, Social Mobilisation and Behaviour Change Communication	20
	Surveillance, Monitoring, Evaluation and Operational Research (SMEOR)	20
5.0	National Priorities for malaria control	21
5.1	Prevention of Malaria	21
	Integrated Vector Management	21
	Long Lasting Insecticidal Nets (LLINs).....	21
	Indoor Residual Spraying (IRS)	21
	Larviciding.....	21
	Environmental Management	22
	Insecticide Resistance Surveillance	22
	Prevention and control of Malaria in Pregnancy	22
	Use of Long Lasting Insecticidal Net (LLIN)	22
	Intermittent Preventive Treatment in pregnancy.....	22
	Treatment of malaria during pregnancy	22
	Seasonal Malaria Chemoprevention (SMC)	22
5.2	Malaria Case Management.....	23
	Diagnosis of malaria	23
	Quality assurance and quality control of malaria laboratory diagnosis	23
	Malaria Treatment	23
	Treatment of uncomplicated malaria	23
	Treatment of severe malaria	24
	Community based diagnosis and treatment of malaria.....	24
	Monitoring of antimalarial therapeutic efficacy	24
	Collaboration with the Private sector health care providers.....	24
5.3	Advocacy, Social Mobilization and Behavioural Change Communication (ASMBCC)24	
5.4	Procurement and Supply Management of malaria commodities	25
5.5	Surveillance, Monitoring, Evaluation and Operational Research (SMEOR)	25
	Surveillance	26
	Monitoring and Evaluation.....	26
	Operational Research.....	26
5.6	Epidemic preparedness and emergency response.....	27
6.0	Management of the National Malaria Control Programme.....	27
6.1	Programme Management and Leadership.....	27
6.2	Organisational structure and Organogram	27
6.3	Human Resources	28
6.4	Partnership Building	29
6.5	Resource Mobilisation	29
7.0	Coordination framework of the National Malaria Policy	30
7.1	Malaria Policy Advisory Committee (Expert Committee)	30
7.2	National Malaria Steering Committee.....	30
	References.....	31
	Annex 1: Glossary	33

Abbreviations

ACT	Artemisinin-based Combination Therapy
ASMBCC	Advocacy Social Mobilization Behavioural Change Communication
BHS	Basic Health Services
CHN	Community Health Nurse
CRR	Central River Region
GBoS	Gambia Bureau of Statistics
GDP	Gross Domestic Product
HMIS	Health Management Information System
IDB	Islamic Development Bank
IMF	International Monetary Fund
IPTp	Intermittent Preventive Treatment in Pregnancy
IRS	Indoor Residual Spraying
IVM	Integrated Vector Management
LLIN	Long Lasting Insecticidal Net
LRR	Lower River Region
MICS	Multiple Indicator Cluster Survey
MIP	Malaria in Pregnancy
MIS	Malaria Indicator Survey
NBR	North Bank Region
NBRE	North Bank Region East
NBRW	North Bank Region West
NGO	Non- Governmental Organization
PHC	Primary Health Care
PSM	Procurement and Supply Chain Management
RCH	Reproductive and Child Health
RDT	Rapid Diagnostic Test
RHD	Regional Health Directorate
SMC	Seasonal Malaria Chemoprevention
TBA	Traditional Birth Attendant
THE	Total Health Expenditure
UNDP	United Nations Development Fund
UNFPA	United Nations Fund for Population Affairs
UNICEF	United Nations Children`s Emergency Fund
URR	Upper River Region
VHS	Village Health Services
VHW	Village Health Worker
WCR	West Coast Region
WHO	World Health Organization

1. Introduction

Since 2000, The Gambia has made significant progress in reducing malaria morbidity, achieving levels that have placed the country in a prime position to begin the transition from a control programme to an elimination programme. The MSP 2021 – 2025 is to reduce malaria transmission to Zero through a rapid scale-up of proven and highly effective malaria prevention and treatment measures: Integrated Vector Management (IVM) under Preventive intervention; Malaria Case Management; SPI; Intermittent preventive treatment of pregnant women (IPTp), Malaria Prevention and Control During Pregnancy; Seasonal Malaria Prevention; Advocacy; Communication and Social Mobilization; Procurement and Supply Management (SMEOR) and Programme Management and Partnership.

The long-term vision of the plan is to sustained high coverage over 90% with malaria prevention and treatment interventions that would progressively lead to malaria-free Gambia with the ultimate goal of malaria elimination in the country by 2025 - 2030.

1.1 Country Characteristics

Geography

The Gambia is situated in the Sahelian zone on the West Coast of Africa located on the West African and has a total area of 11,300 square km, of which about 20 percent is described as wetland. The river runs from east to west, dividing the country in two strips of land 25 to 50 km wide and about 300 km long. The width of the country varies from 24 to 28 km and has a land area of 10,689 square kilometres. Apart from its coastline, where the Gambia borders the Atlantic Ocean, it is bordered on the North, South and East by the Republic of Senegal. The country has a population estimate of about 2.1million (2013 census) projections, with a population growth rate of 2.7 per cent per annum and density of 171/km², hence the Gambia is one of the most densely populated in Africa. The Gambia is a multi-ethnic and multi-racial society with an unparalleled degree of ethnic, racial, and religious tolerance with civil tranquillity.

Administrative Structure

The country is divided into seven Administrative Regions including two Municipalities. Greater Banjul area (GBA) comprising the municipalities of Banjul and Kanifing. The Regions are West Coast Region (WCR), Lower River Region (LRR), Central River Region (CRR), Upper River Region (URR) and North Bank Region (NBR). The two Municipalities have elected Mayors whilst the other Regions have Governors appointed by the President of the Republic. A varying number of districts constitute a region.

Economic Outlook

The Gambia is classified as a low-income economy country, with Gross National Income (GNI) per capita of US\$510 in 2012 (World Bank, 2012). Low-income economies are countries with GNI US\$ 1,025 or less. Debt service consumed more than 53 percent of The Gambia's revenues in 2016-18 and the country remains dependent on food and fuel imports. Faced with the COVID19 pandemic, The Gambian economic outlook has been severely affected following abrupt halt of tourism (the mainstay of the local economy), disrupted trade and a decline in remittances and private capital inflows. The 2020 Balance of Payments outlook has weakened by at least US\$40 million (2 percent of GDP) leading to debt cancellation by the International Monetary Fund.

Demography

The Gambia has a projected population of 2.3 million^{1,2} of which almost 60 percent resides in towns, 50.7 per cent are female and 49.3 per cent male. Fifty-seven percent of the population is younger than 25. Infant mortality rates are estimated at 41 per 1,000 live births and the under-5 mortality rate is 57 per 1,000, which, although declining over the past 20 years, is still some distance from the SDG 3 target of 25. Life expectancy at birth is projected at 64 years for both sexes. The under-five mortality rate declined from 141/1000 in 2002 to 131/1000 in 2005/6 and by 2010 it dropped to 109/1000 (MICS 2010). According to the UNFPA State of the World's Population Report 2012, the projected maternal mortality ratio in 2012 was 360/100,000 live births. The National Sentinel Surveillance (NSS) Report 2011 indicates a national HIV1 and HIV2 prevalence of 1.7% and 0.07% respectively (See Table 1 and Figure 1 below).

Table 1: Socio-Demographic indicators

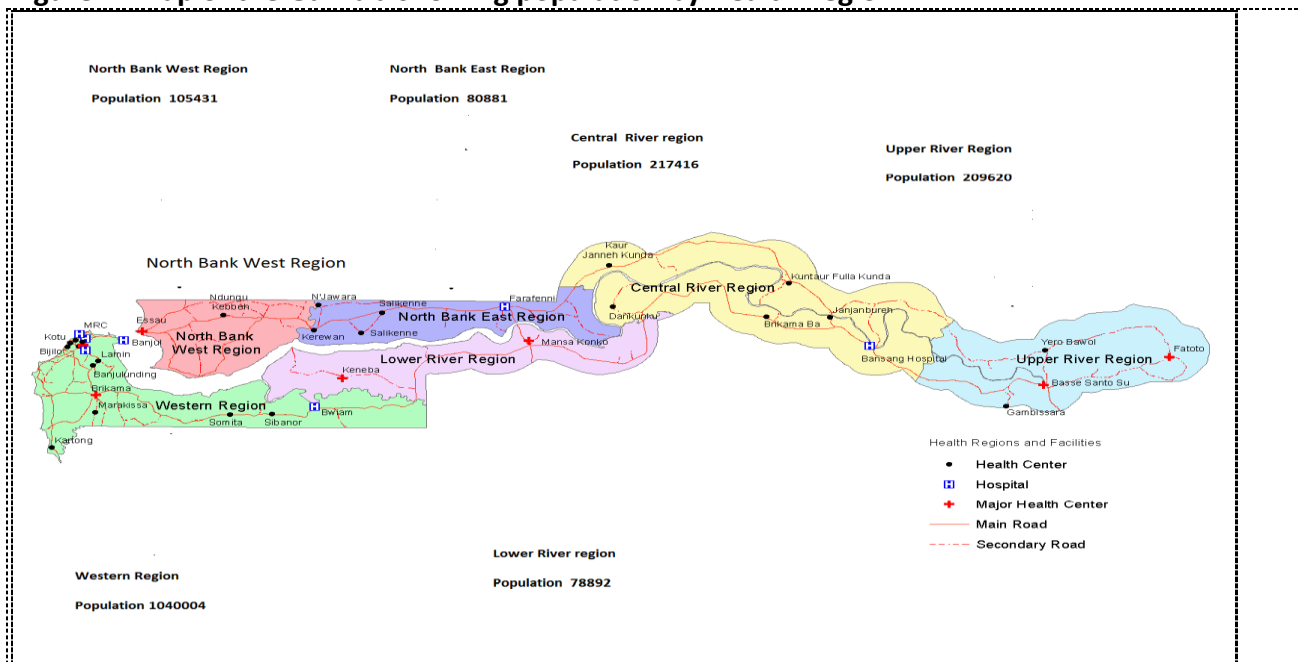
Indicator	Value	Source	Year
Total Population	2.3 million	(UN, 2019)	2019
Life expectancy at birth (both sexes)	62.23 years	UN - World Population Prospects	2020
Literacy rate (women 15 –24 years)	63.9%		
HIV 1 prevalence	1.69%	National Sentinel Surveillance report	2017
HIV 2 prevalence	0.13	National Sentinel Surveillance report	2017
Total Fertility Rate (TFR)	5.6	RMNCH Policy	2017
Under 5 mortality rate per 1000 live births (both sexes)	54/1000	RMNCH Policy	2017
Maternal mortality ratio (per100,000 live births)	433	RMNCH Policy	2017

¹ UNFPA 2019. www.unfpa.org/data/gm

² (UN, 2019)

1.2 Health System

Figure 1: Map of the Gambia showing population by Health Region

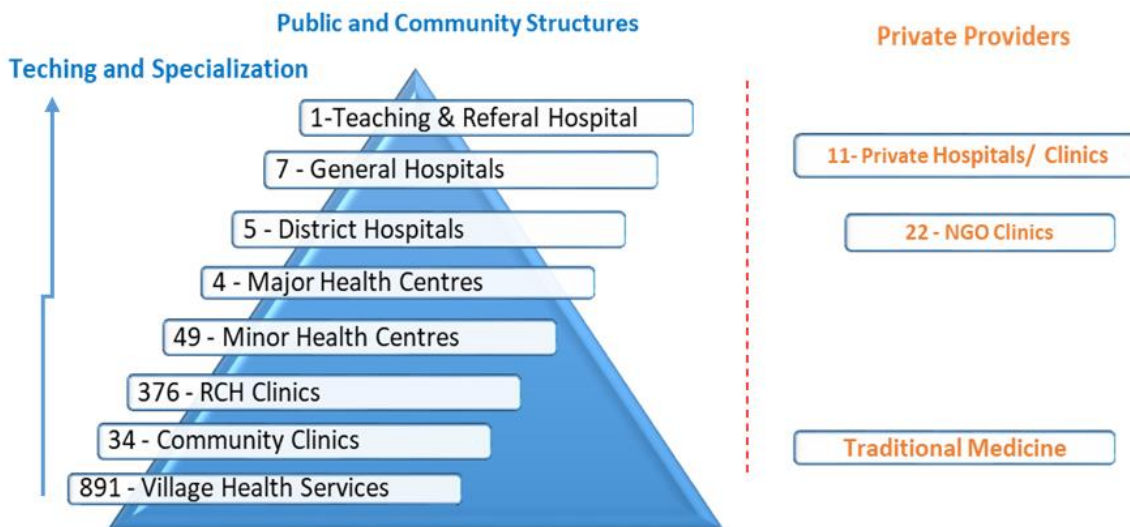


1.2.1 Country Health System and MoH Organisational Structure

The MoH is responsible for the promotion and protection of the health of the population. The health sector is managed at two levels, the Central and Regional Levels. At the Central Level, the Minister of Health and the Permanent Secretary are the Government's appointees responsible for the whole health sector. To support, the Central Level is organized into Directorates: Directorate of Health Services, Planning and Information, Social Welfare, Health Promotion and Protection, National Public Health Laboratories; and Food Standards, Quality & Hygiene Enforcement. These Directorates plan, direct and manage all health programmes, and decision-making is made at this level.

The Gambia is a multi-party democratic republic. Administratively, the country is divided into seven health regions managed by Regional Health Directors (RHDs). The Regional Health Directorates are responsible for administration, management and supervision of health services in their respective regions. They also have overall responsibility for the primary and secondary health facilities within their respective regions. The Regional Directors report to the Permanent Secretary through the Director of Health Services.

1.2.2 Health Services Delivery Structure



The Gambia has a three-tier health service delivery system comprising the primary, secondary and the tertiary levels. The primary level comprises the Village Health Services and Community Health Posts; the secondary includes Minor and Major Health Centres while the tertiary level is made up of Hospitals.

The Government is the main provider of health services in the country. In the public sector, health care services are provided by 5 General Hospitals, 1 Specialised Hospital and 1 Teaching Hospital at the tertiary level; 6 Major Health Centres and 42 Minor Health Centres at the secondary level; 38 Community Health Posts and 492 Village Health Posts at the primary level. The public health system is complemented by 60 Private, NGO and Community Managed Health Facilities. In addition, there is a large number of Private-for-profit Pharmacies, medicine outlets, and traditional healers that deliver other health services.

Primary Level (Village Health Service-VHS)

Primary Health Care (PHC) villages have generally been identified from villages with a population of 400 or more and occasionally from ones located in relatively isolated areas. The PHC level workforce is made up of Village Health Workers (VHWs), Traditional Birth Attendants (TBAs) and other community volunteers. In addition to increasing community awareness of health promotion and disease prevention, the VHW provides treatment and/or referral for minor illnesses and injuries whilst the TBAs attend to deliveries and provide antenatal and family planning services in the community. The VHWs and TBAs are supervised and given continuous education by CHNs Village Health Services who oversee circuits of 4 to 10 PHC villages. The CHNs VHS are supervised by the CHN Tutor in the Regional health Team. The PHC villages are organized into 69 such circuits.

Secondary level

The secondary level comprises Minor and Major Health centres, which provide basic health services (BHS) and supervision to the Village Health Service (VHS). In addition, these health facilities also serve as referral points for VHS. There are 6 Major and 42 Minor Health Centres in the country. This level provides static base and mobile outreach RCH services, which include outpatient clinics, infant welfare clinics, and antenatal services. The Major Health Centres are staffed and equipped to provide some specialised care including Comprehensive Emergency Obstetric & New-born Care, (EmONC); other emergency care for children and adults alike, including emergency surgery. The minor health centres refer cases to the major health centres whilst major health centres refer cases to tertiary level for other specialised management. The private, NGO and community health facilities complement the public health sector and are supervised by the respective Regional Health Directorates.

Tertiary level

The hospitals provide tertiary care for patients whose conditions cannot be managed at the basic health facilities. They have semi-autonomous status, with hospital Management Boards. The 5 general hospitals and the teaching hospital are managed by Chief Executive Officers and a Chief Medical Director respectively.

1.3 Health Financing

The Gambia has an extensive public health care system that provides comprehensive services. Over 46.7%% of the total health funding comes from donors (international health development partners) raising challenges of sustainability and predictability of funding to the sector³.

In 1988 a Cost Recovery Program was started as part of the National Health Development Program. This established the Drug Revolving Fund and the introduction of user fees as a form of health financing. Bamako Initiative (BI) was introduced in 1993 as a strategy to further develop the Cost Recovery Program. In 2014 the Government of The Gambia and Ministry of Health and Social Welfare with support from the World Bank, WHO, UNICEF and UNFPA introduced Results Based Financing.

Overall, total health expenditures have been rising. However, the composition of sources has shifted inconsistently over time, particularly international partner contributions. Such short-term shifts expose the country to challenges in predicting year-to-year needs and to risks of year-to-year financing shortfalls.

Current funding for the health sector is less than optimal and the available resources are inadequate to provide the required quality of health care services for the population. In addition donor inputs are not well coordinated while issues of efficiency and equity in the use of funds continue to be a challenge⁴.

³ NHA report for The Gambia (2013)

⁴ Health Financing Policy 2017

2.0 Malaria Situation in The Gambia

Malaria continues to be the major public health problem in The Gambia, as it is meso-endemic with the whole population at risk of infection. The Gambia has a perennial transmission with most cases (approximately 90%) occurring in the later stages of the rainy season (September to December). The annual malaria incidence declined by 43% across all seven regions over the past four years from 149 per 1,000 population in 2011 to 85 in 2014. The 2010 Malaria Indicator Survey (MIS) and the results of the MIS 2014 show that parasite prevalence has declined across the country in children under 5 from 4.0% to 0.2% over the period. The dominant malaria parasite species is *Plasmodium falciparum* which accounts for more than 95% of all reported cases⁵.

Epidemiologic profile of Malaria

Malaria is still endemic in the country. Data from MIS 2010 indicate that the malaria distribution pattern is not uniform across the country. Central River Region has the highest prevalence of malaria (9.9%) among children less than five years old, followed by Upper River Region (4.4%). The lowest malaria prevalence is recorded in North Bank East Region, with 0.5%.

2.1 Environmental and climatic factors

The Gambian climate is typically Sahelian with a long dry season that prevails from November to May and a wet season that starts in June and ends in October. Over 90% of clinical cases of malaria occur during the months of September to December (HMIS, 2012). The flood plains and fresh water swamps cover a large area of the country, particularly CRR and parts of LRR and NBR. The River Gambia is fringed by fresh water swamps in the eastern half of the country and salt water in the western half.

2.2 Population at risk

Malaria transmission is meso-endemic in The Gambia and affects the whole population. Historical data indicate that the disease was a major cause of morbidity and mortality among children under-five years of age. However, data from the National Malaria Sentinel Surveillance Report (2011) indicate a shift in the disease burden from children under 5 to children 5-14 years. Although the age shift in the malaria burden from under-five children to children aged 5-14 years has been confirmed in both the MIS 2010 and the MIS 2014, a separate study using a subset of the MIS 2010 found no significant age differentials in malaria parasite prevalence⁶.

2.3 Stratification and Risk Mapping

In The Gambia, there is only one stratum (meso strata) for malaria.

⁵ *GMIS 2017 Final Report, GBoS*

⁶ *Sonko et al; 2014.*

2.4 Parasites and Vector species

Parasite

The most common malaria parasite in the country is *Plasmodium falciparum* which accounts for more than 95% of all reported malaria cases. *Plasmodium malariae* and *ovale* account for the remainder.

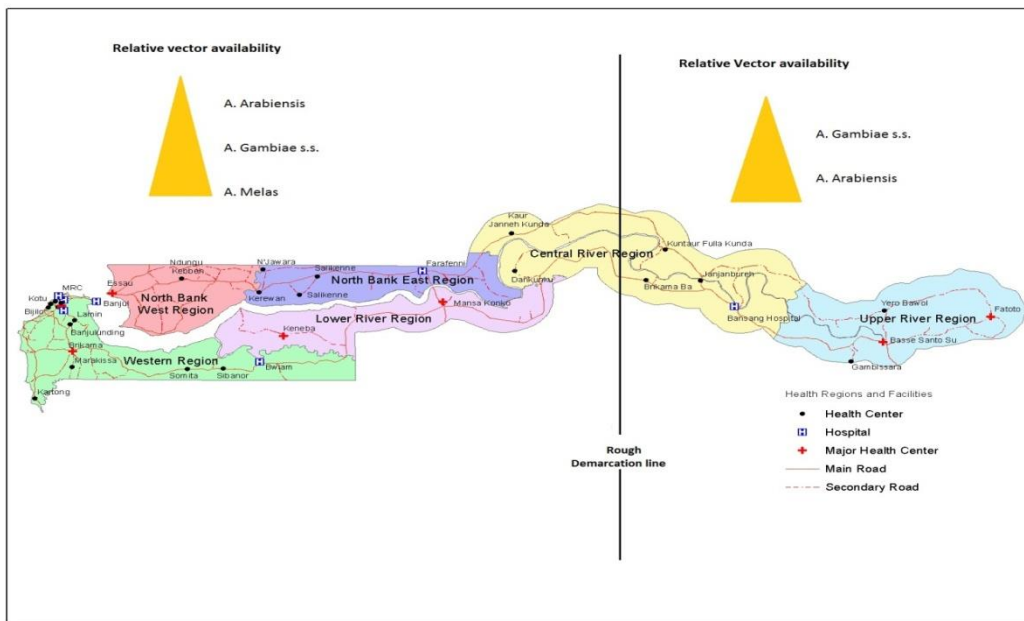
Vector species and distribution

Members of *Anopheles gambiae s.l.* are the main vectors of malaria in The Gambia. These include *Anopheles gambiae s.s.*, *Anopheles arabiensis* and *Anopheles melas*. The first 2 are fresh water breeders and are the major malaria vectors. They are distributed throughout the country. *Anopheles melas* on the other hand is a salt-water breeder, often found in lagoons and edge of flood plains in western parts of the Gambia. The major malaria vectors in the Gambia are indoor biting and indoor resting species. The annual entomological inoculation rate ranges from 1 – 80 infective bites per person per year.

The distribution of malaria vectors is well defined in the Gambia. A species determination by PCR in a study jointly conducted by MRC and NMCP in 2010/11 in Central River Region (CRR) revealed that 57% (n= 312) of the total (n=549) that amplified were *Anopheles gambiae s.s.*, while 42% (n=232) were *Anopheles arabiensis*. *Anopheles melas* was not detected indicating its preference for high salinity regions. Furthermore, 312 *Anopheles gambiae s.s.* were further tested for “M” and “S” molecular forms. Of this, 116 were “M” molecular form 45 “S” and 1 Hybrids of M/S. This concludes the concentration of *Anopheles gambiae s.s.* and *Anopheles arabiensis* in middle reaches of the The Gambia.

Anopheles gambiae s.s. and *An. arabiensis* were found in all six regions. *Anopheles melas* was recorded only at Brikama where it constituted about 50% of the mosquitoes collected. The relative proportions of *An. gambiae s.s.* and *An. arabiensis* varied between the different study sites. Mosquitoes assembled from Farafenni and Basse study sites were primarily *An. arabiensis* (Farafenni: 91.1%; Basse: 97.1%). In Kuntaur area in contrast, most (88.3%) anophelines were *An. gambiae s.s.* In the Figure below, black coloured area of the circle represents *Anopheles gambiae s.s.*, White coloured area of the circle represents *Anopheles arabiensis* and Gray coloured area represents *Anopheles melas*. The regions are identified by the following colouration: Pink for NBRW, Red for CRR, Light Gray for URR, Yellow for LRR and Green for WCR. Figure 2 below shows vector distribution in the country.

Figure 2: Relative distribution of Malaria Vectors in the Gambia



2.5 Disease trends

In 2003, clinically suspected malaria cases accounted for 78% of all outpatients’ attendance and 58% of all inpatient admissions (HMIS Service Data Report, 2004). About 40% of total outpatient consultations in public sector health facilities in 2006 were due to uncomplicated malaria whilst diarrhoeal diseases and acute respiratory infections together constituted about 25%. Since the scaling-up of key interventions from 2004, there has been a continuous decline in the incidence of malaria in The Gambia. This was reported in studies conducted by the Ministry of Health and Medical Research Council (Ceesayet.al, 2008, 2010).

In 2008, a total of 258,165 episodes of clinical malaria were reported including 5,183 among pregnant women and 120,524 among children <5 years of age (HMIS 2008). A study conducted over the period 2003-2007 at four sites in the country with complete slide examination records showed that the proportion of malaria-positive slides decreased by 82% at site 1, 85% at site 2, 73% at site 3 and 50% at site 4 (Ceesay et al 2008). The proportion of malaria admissions at three sites with complete admission records dropped by 74%, 69% and 27% respectively (see fig 5). The under-5 mortality rate, has been declining over the period from 141/1,000 (MICS, 2000) to 131/1000 in 2005. The 2010 MICS has shown a further decline to 109/1000.

2.6 Key strategies for malaria control

The National Malaria Control Policy and Strategy 2008-2015 highlight specific malaria control strategies and interventions. The key strategies are Management and Partnership Building; Malaria Case Management; Prevention and Control of Malaria in Pregnancy; Integrated Vector Management (IVM), Advocacy, Social mobilization and Communication; Surveillance, Monitoring and Evaluation and Operational Research.

2.7 Malaria programme performance

The Malaria policy 2008-2015 was developed with a view to addressing the gaps identified in the previous policy (2002-2007). The 2002-2007 malaria policy primarily focused on interventions targeting the vulnerable population. The 2008-2015 policy shifted from vulnerable populations to universal coverage of malaria interventions. , thus, steady progress was made towards the achievement programme targets. In 2012 the percentage of under-5 children with malaria receiving appropriate treatment within 24 hours of onset of symptoms was 70% .Review of the indicators on the proportion of under-5 children who slept under an ITN was 62.1%. The proportion of pregnant women who received 2 doses of IPTp during ANC visits stood at 61.1%. The percentage of pregnant women who slept under an ITN the night preceding the start of the survey was 59.3%. Although there was no baseline, the percentage of households with at least two LLINs was 54.7% whilst the proportion of household members who slept under an ITN was 66.3% (MIS, 2010). All cause under-5 mortality rate decreased from 141/1000 in 2001 to 131/1000 in 2005 (MICS, 2001; MICS, 2005), Furthermore, in 2010 there was a reduction of all cause under-5 mortality rate to 109/1,000 (MICS, 2010). Over 90% of women aged 15-49 were able to explain the causes, symptoms and prevention of malaria. The main sources of information on malaria as reported by women are radio (67%), health worker (61%), family/friends (56%) and television (36%). Posters (1.7%), T-Shirts (1.6%) and bill boards (0.7%) were the least source of information (MIS, 2010).

3.0 Bottlenecks Analysis – Using the Malaria Programme Review Report

The Malaria Programme Review identified the following bottlenecks to malaria control in The Gambia:

3.1 Programme Management

- Low government budgetary allocation to malaria control
- Weak coordination and management of Malaria Programme at regional level

3.2 Prevention

- Unsatisfactory utilization of Insecticidal Treated Nets
- Low coverage for IRS

3.3 Prevention of Malaria in Pregnancy

- Late booking at Antenatal Clinics
- Low uptake of the second dose of IPTp

3.4 Case Management

- Low national capacity for quality assurance of anti-malarial medicines and related medical products
- Absence of Parasitologist
- Inadequate storage infrastructure to support good storage practice of medical products especially at the health facilities
- Poor prescribing and dispensing practices in both public and private health facilities
- Weak national capacity for medicines safety monitoring
- Effective supervision and monitoring of health workers after training;

3.5 Community Case Management

- The slow roll out of RDTs and ACTs to the communities
- Inadequate and unreliable consumption data for forecasting and quantification of community needs for malaria diagnosis and treatment

3.6 Procurement and Supply and Management (PSM)

- Weak Medicines and related products Quality Assurance;
- Poor prescribing and dispensing practices in both public and private health facilities; weak national Pharmacovigilance system.

3.7 Surveillance, Monitoring, Evaluation and Operational Research (SMEOR)

- Absence of Epidemiologist and Statistician

- Limited capacity for handling and managing data generated from large scale surveys,
- Weak HMIS to provide up-to-date information on malaria situation in the country
- Stratification and risk mapping needs updating

Taking into consideration the above bottlenecks as well as the strengths and opportunities available to accelerate malaria control in the country, the Vision, Goal and Objectives for the revised National Malaria Policy are defined below.

4.0 Vision, Guiding Principles, Goal, Objectives

4.1 Vision: Malaria-free Gambia

4.2 Guiding Principles

Universal access for the population at risk

Everyone has the right of access to malaria prevention health care and the right to benefit from malaria treatment

Client satisfaction

Malaria prevention and control services should reflect local needs and involve communities and individuals at all levels of planning and provision of services. Services and technology should be affordable and acceptable to communities

Equitable access

Malaria prevention and control services must strive to address inequity and prioritise services to the most needy.

Evidence-based

Social, biomedical and health systems research should inform policy and strategic choices in order to provide effective malaria prevention and control programme.

Partnership

Effective alliances with national, sub-regional and international partners for information sharing, resource mobilization for malaria prevention and control interventions.

Key Principles

- No single intervention or package
- Set of appropriate interventions by place
- variation in effectiveness of the intervention by place and time
- Evaluate regularly to guide program
- Excellent Surveillance and Response are key to achieving and maintaining Elimination
- Information system must be granular to allow identification, tracking and classification and response

4.3 Goals:

By end 2025

Goal 1: Reduce Malaria Mortality Rates to Zero Percent Compared to 2018 Levels

Goal 2: Reduce Malaria case Incidence to Zero Percent Compared to 2018 Levels

4.4 Development Milestones (Outcomes)

Transmission levels defined by WHO

- High Transmission- API OF 450/1000
- Moderate Transmission- 250-450/1000
- Low Transmission- 100-250/1000
- Very low Transmission <100/1000

By 2022

Low Transmission- 100-250/1000 achieved in all the Administrative regions.

- Malaria related morbidity reduced in the entire population to control stage and control stage consolidated countrywide by end 2022
- Malaria related mortality reduced in the entire population to control stage and control consolidated countrywide by end 2022

By 2023

Malaria pre-elimination stage achieved and consolidated countrywide

- Malaria related morbidity reduced in the entire population to reach pre-elimination stage by end 2023
- Malaria related mortality reduced in the entire population to reach pre-elimination stage by end 2023

By 2025

Malaria elimination stage achieved for every district in The Gambia

- Malaria related morbidity reduced to 0% by 2025
- Malaria related mortality reduced to 0% by 2025

4.5 Objectives

Access to Services and Care

- Universal access to prevention measures achieved by 2025.
- Access to prevention measures sustained above 90 % for all districts by 2025.
- Universal access to quality Malaria Case Management achieved countrywide by 2025

Advocacy, Social Mobilisation and Behaviour Change Communication

- Malaria prevention behaviour promoted countrywide.
- Positive care seeking behaviour promoted countrywide.
- Communities countrywide actively participating in malaria control and prevention activities.

Surveillance, Monitoring, Evaluation and Operational Research (SMEOR)

- Health Management Information System capable of producing up to date information on the situation of malaria in every community developed by end 2021.

5.0 National Priorities for malaria control

To achieve the above goal, development milestones and Objectives, this policy will focus on the following priority intervention areas

5.1 Prevention of Malaria

Integrated Vector Management

Preamble

Integrated Vector Management (IVM) is a key component of malaria control in The Gambia. Vector control relies primarily on two main interventions: Long-Lasting Insecticidal Nets (LLINs) and Indoor Residual Spraying (IRS). Use of these interventions has increased significantly at community level. Government will continue to consolidate and strengthen the achievements realised in the area of integrated vector management. Targeted larviciding and environmental management, where applicable, are supplementary vector control measures.

Long Lasting Insecticidal Nets (LLINs)

This policy will promote universal access and use of LLIN among the population at risk of malaria through the following:

- Long lasting insecticidal Nets distribution will remain the key intervention for malaria vector control
- Selection of LLINs will be based on World Health Organisation Pesticide Evaluation Scheme (WHOPES) recommendations
- Involvement and participation of private sector through public-private partnership to support social mobilisation towards access and continued use of LLINs

Indoor Residual Spraying (IRS)

The policy will promote the use of indoor residual spray for malaria vector control, thus the following priority areas are emphasised:

- Indoor Residual Spraying will be used to complement other vector control interventions
- Selection of chemicals for IRS will be based on WHOPES recommendations
- Government involvement and encouragement for support for public-private partnership in IRS
- Insecticide for IRS be included in the Essential Health Commodity package to improve easy access.

Larviciding

Use of biological and chemical larvicides for targeted larviciding as part of IVM for malaria vector control will be conducted through the following:

- Reduction of breeding sites through targeted larviciding, a supplementary strategy, as part of IVM.
- Application of Chemical and biological larvicides to reduce larval densities and adult mosquito populations.
- Selection of chemical and biological larvicides based on WHOPES recommendations

- Involvement and participation of private sector through public-private partnership in targeted larviciding

Environmental Management

The policy will promote environmental management for malaria vector control through the following:

- Promote Inter-sectoral collaboration to ensure the inclusion of malaria control in relevant sector policies through advocacy
- coordinates Inter-sectoral collaboration in the environmental management for malaria vector control

Entomological and Insecticide Resistance Surveillance

- entomological sentinel surveillance sites will be strengthened to monitor Vector resistance
- Monitoring the efficacy of insecticides used for vector control will be conducted at least once a year to provide information for the selection of insecticide for IRS
- Monitor vector bionomics

Prevention and control of Malaria in Pregnancy

Preamble

Malaria in Pregnancy (MIP) is integrated in the national RCH service package delivered at all public and most private and NGO clinics including outreach services. The high level of client-service provider contact at the country's RCH clinics offers a good opportunity for increasing coverage. The percentage of pregnant women who slept under an ITN increased from 26% in 2010 to 81% in 2014, before dropping to 69% in 2017. The use of the three-pronged strategy will be the policy priorities for malaria prevention and control during pregnancy. The MIP strategy will include the following interventions:

Use of Long Lasting Insecticidal Net (LLIN)

- All pregnant women will be protected from malaria by increasing access to LLIN through RMNCAH clinics and mass distribution campaigns

Intermittent Preventive Treatment in pregnancy

- All pregnant women will receive four doses of Sulphadoxine-Pyrimethamine; given as Direct Observed Treatment through scheduled Antenatal Clinic visits.

Treatment of malaria during pregnancy

- Prompt and appropriate treatment of malaria will be provided to all pregnant women.

Seasonal Malaria Chemoprevention (SMC)

Preamble

Malaria transmission in The Gambia is highly seasonal with 90% of clinical cases occurring during and immediately after the rainy season. The highest rates are recorded in rural areas especially in CRR and URR. This is mainly due to the presence of ecological factors such as flood plains and swamps which are favourable for mosquito breeding. High transmission occurs between

September to December. The strategy will be implemented through campaigns using community health workers within the VHS

- A complete treatment course of sulfadoxine–pyrimethamine plus amodiaquine will be given to every child aged 3 to 59 months on monthly basis up to a maximum four doses during the peak transmission period. This age range will be extended to include children up to 120 months based on the evidence from empirical data.

5.2 Malaria Case Management

Preamble

In line with global trends, the national policy on malaria diagnosis and treatment has shifted from presumptive to parasite-based diagnosis. In addition, early recognition of the signs and symptoms of malaria and prompt effective treatment is still needed during the malaria elimination phase to reduce morbidity and mortality associated with the disease.

Diagnosis of malaria

Malaria will be confirmed through parasite-based tools for all suspected cases before treatment for all ages and settings. The following methods will be maintained:

Microscopy: This will still be the mainstay of parasite-based diagnosis and will be the preferred method as the gold standard (unless where it is not feasible).

Rapid Diagnostic Tests (RDTs): This will still be used where microscopy is not feasible.

Quality assurance and quality control of malaria laboratory diagnosis

- Standards for Clinical Laboratory Services will be reviewed, updated, disseminated and distributed.
- Guidelines for Good Laboratory Practice will be reviewed, updated, disseminated and distributed.
- Quality control on slide microscopy will be strengthened
- System for RDT quality control will be developed and strengthened

Malaria Treatment

Treatment of malaria will still be based on parasite-based diagnosis

Treatment of uncomplicated malaria

Artemisinin-based combination therapy (ACT) will still remain the treatment of choice for uncomplicated malaria in the country. In settings where low transmission has been achieved, patients with uncomplicated malaria would be treated with a single low dose of primaquine with ACT except for pregnant women, infants less than 6 months and women breast feeding infants less than 6 months.

Treatment of severe malaria

Parenteral Artesunate will still remain to be the medicine of choice for the treatment of severe malaria in all age groups and settings. Artemether or Quinine will be acceptable alternatives where Artesunate is not available

Community based diagnosis and treatment of malaria

The established Village Health Services will be maintained to ensure and enhance accessibility to basic health care, including diagnosis and treatment of malaria at community level. The Village Health Services will be further strengthened for effective community based diagnosis and treatment of malaria. Treatment of malaria at community level will still be based on parasitological diagnosis using RDTs

Monitoring of antimalarial therapeutic efficacy

Monitoring of antimalarial therapeutic efficacy will still be routinely undertaken as part of case management.

Collaboration with the Private sector health care providers

Collaborating with the private sector is essential in increasing access to malaria diagnosis and treatment. The adherence to national guidelines on malaria diagnosis and treatment has been identified as one of the bottle neck affecting access to quality services. To improve collaboration, the following policies will be pursued:

- Government will create the required enabling environment to support improvement in the diagnosis and adherence to standard treatment guidelines by the private health care providers.
- Ministry of Health will ensure the private health sector's adherence to policies and guidelines through monitoring and supervision

5.3 Advocacy, Social Mobilization and Behavioural Change Communication (ASMBCC)

Preamble

Health education and promotion is an important component of The Gambia's Primary Health Care Strategy. Advocacy, Social Mobilization and Behavioural Change Communication (ASMBCC) is an important component of malaria prevention and control as well as elimination. ASMBCC is concerned about mobilizing political support and resources, informing and enhancing knowledge among the general population and empowering them to express their needs and adopt positive behaviours .

The Malaria Programme Review shows gap between knowledge and behaviour and thus, the following areas will be strengthened and scaled up.

- Current BCC activities will be scaled up and new innovative ones introduced
- to promote the adoption of positive behaviours
- Partnership, ownership and harmonisation of BCC activities and approaches will be promoted.
- ASMBCC will be based on findings of operational research
- Community based communication activities will be the focus on ASMBCC

- Mass and Social media communication will be improved to fit different contexts and individual preferences.

5.4 Procurement and Supply Management of malaria commodities

Preamble

The Ministry of Health has in place Procurement and Supply Management System (PSM) for the supply of medicines and other medical supplies. The NPS has overall procurement responsibility for all pharmaceuticals and health products used in the public sector health service. A multi-disciplinary National Quantification Committee has been established and is responsible for identifying procurement needs in consultation with partners and stakeholders in accordance with set standards and procedures.

A Contracts Committee has been established in accordance with The Gambia Public Procurement Authority Act 2001 and Regulations 2003. The main challenges to the PSM identified by the Malaria Program Review include; Weak Medicines and related products quality assurance; poor prescribing and dispensing practices in both public and private health facilities and weak national pharmacovigilance system. The following actions will be undertaken:

- Strengthening of the mechanism for the quality assurance of all malaria medicines and other products offered for use or consumption in the country
- Ensuring security of essential medicines and other commodities for malaria prevention for the population will be ensured
- Quarterly updates on malaria essential medicines security situation will be provided

5.5 Surveillance, Monitoring, Evaluation and Operational Research (SMEOR)

Preamble

Surveillance, Monitoring, Evaluation and Operational Research are needed to generate the required information on morbidity and mortality trends for evidence based decision making and planning. Currently, NMCP in collaboration with HMIS has guidelines and other instruments for the management of data and information. However, the 2013 malaria programme review highlighted the following as weaknesses; *(i)* limited capacity for handling and management of data from large scale surveys, *(ii)* data quality and *(iii)* inadequate funds to implement the M & E Plan.

In this policy, the programme will expand the sentinel sites and aligned them with the entomological surveillance sites. In addition active surveillance will be introduced on phases starting with regions that meets the WHO pre elimination standards. The M&E plan 2014 - 2020 will be reviewed to be in line with the pre-elimination stage. The programme will develop guidelines and identify areas for operational research in tracking and monitoring program performance and impacts in order to make inform decision.

However, the 2020 malaria programme review highlighted the following as weaknesses:

- i. Inadequate coordination and review meetings

- ii. Limited consensus among the development partners, technical and implementing agencies on the basic of core M&E framework;
- iii. Weak national surveillance systems at all levels
- iv. Unavailability of an up to date data management guidelines;
- v. No user data satisfaction survey conducted;
- vi. Inadequate advocacy for data demand and use at all levels;
- vii. Inadequate orientation and training of health workers on data demand and use;
- viii. Inadequate capacity of health workers on data management;
- ix. Limited malaria sentinel sites as compared to the entomological surveillance sites;
- x. No active surveillance in areas of very low prevalence (North banks and LRR);
- xi. No annual operational work plan and quarterly review meetings;
- xii. Lack of malaria surveys and research plan;
- xiii. Inadequate capacity on operational research;
- xiv. No operational research on Malaria in Pregnancy and other proposed Operational researches as indicated in the MSP 2014 - 2020

Surveillance

Surveillance of malaria is important for The Gambia given the recent changes in the epidemiology of the disease. A comprehensive framework exists for malaria surveillance. Currently, the national malaria surveillance system is limited to 6 strategically located health facilities with plans for expansion. There is need to strengthen the integration of the entomological, and climate change components.

- Capacity of malaria surveillance in all health regions will be strengthened

Monitoring and Evaluation

Monitoring and Evaluation of malaria morbidity and mortality trends will be an important component of the policy. The HMIS will be used to track morbidity and mortality trends data in communities. The M& E framework will respond to the, epidemics and disaster due to climate change components. The malaria surveillance system has been intensified towards achieving the required sensitivity for malaria pre-elimination and elimination. Surveillance was improved to identify and track cases of malaria and also changes in malaria trend.

- A mechanism for mandatory reporting of malaria data from private and NGO health facilities will be put in place
- The capacity of the HMIS will be strengthened for timely provision of National Malaria Situation report

Operational Research

Operations research will give Program Management the power to make more effective decisions and build more productive systems based on:

- A mechanism for operational research for more effective decision making and careful predictions of outcomes and estimates of risk will be developed

5.6 Epidemic preparedness and emergency response

As the country progresses from control to pre-elimination and elimination stage, epidemic preparedness and emergency response will be critical to the programme. Therefore, the scope of the national malaria sentinel surveillance system will be widened to include epidemic preparedness and emergency response. The action below will be undertaken:

An epidemic and emergency preparedness plan to respond to malaria epidemics will be developed

6.0 Management of the National Malaria Control Programme

Preamble

Effective malaria control and prevention in The Gambia is important to achieve pre-elimination targets by 2020. The MoH and its partners have developed a strategic framework consistent with the Malaria Policy Vision “a malaria-free Gambia”. The National Malaria Control Policy clearly outlines strategies and service delivery areas.

6.1 Programme Management and Leadership

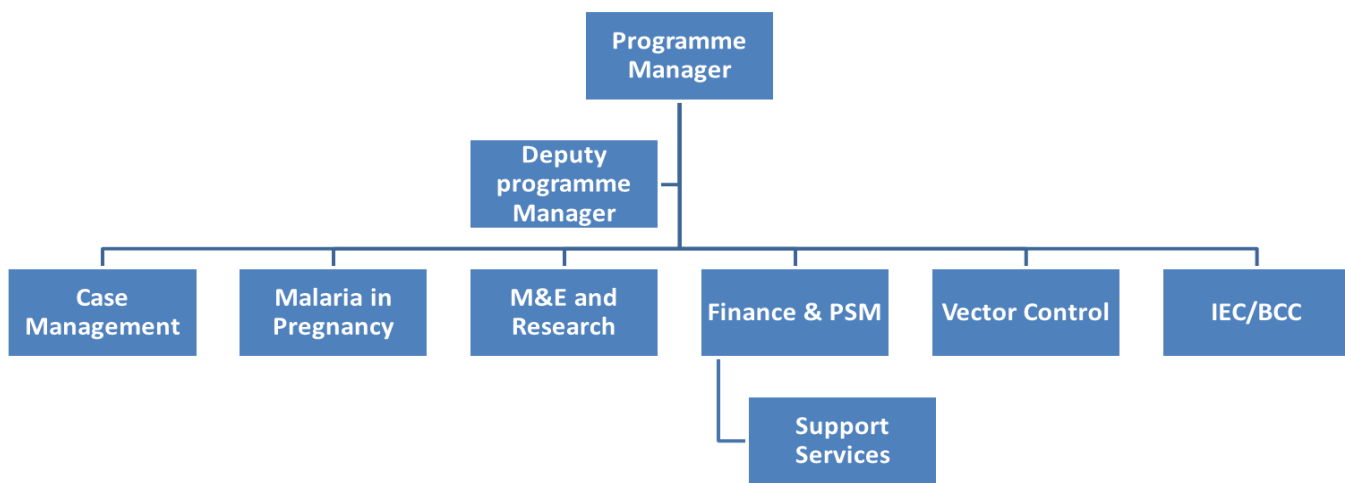
Programme management and leadership are important for the implementation of malaria control and prevention activities. The programme is managed at two levels; central and regional levels. The central level involved in policy formulation, resource mobilization and coordination, which is mainly under the domain of the NMCP in implementing malaria control and prevention activities. The regional level, the RHTs are responsible for the implementation and monitoring of activities in collaboration with other partners.

The Director of Health Services has an oversight leadership of the programme. At the level of the NMCP, the programme manager is tasked with leadership role and guidance for the coordination of the programme.

6.2 Organisational structure and Organogram

A clearly defined structure for management and co-ordination of the malaria control programme exists. At central level, there is a Programme Manager, a Deputy Programme Manager and well established specialized components that correspond to the key malaria control intervention areas. As shown in Figure 3 below, each component is headed by a highly trained focal point who reports to the Programme Manager. In addition, there is a fully established support system comprising procurement, financial management and logistics. The Programme has 16 technical and eight support staff. It has also supported the training of vector control officers at regional level to strengthen malaria control activities in communities.

Figure 3: NMCP Organogram



6.3 Human Resources

Preamble

The programme has a good complement of technical staff. The programme areas are headed by professional staff who hold master’s degree in their areas of specialisation. However, certain specialities such as an epidemiologist, statistician and parasitologist are not available.

Over the past 10 years, the programme has trained 4 of its staff to master’s level in public health and entomology. An additional 33 staff have benefitted from certificate courses in malaria control, planning and implementation. Staff at the central unit, RHTs, health facilities and partner institutions have benefitted from diploma and certificate courses outside the country. In-service training programmes geared towards enhancing skills and competences in different intervention areas continue to be conducted across the country.

- Ministry of Health will recruit and or train specialities such as an epidemiologist, statistician and parasitologist to support program management

6.4 Partnership Building

The implementation of malaria control activities involves a wide range of partners in government, the donor community including UN agencies, NGOs/CBOs and private sector. Non-Governmental Organizations (NGOs) and private practitioners contribute significantly to the provision of curative and preventive health care in the country especially in the urban areas.

6.5 Resource Mobilisation

Preamble

Resource mobilisation for the implementation of the policy will be an overarching priority of this policy. To support resource mobilization, the following actions will be taken:

- Development of a Strategic Plan 2014-2015
- Development of a 2014-2016 Investment Program

7.0 Coordination framework of the National Malaria Policy

To ensure effective implementation of this Policy, the following Committees will be constituted:

7.1 Malaria Policy Advisory Committee (Expert Committee)

The National Policy Advisory Committee will advise the Minister of Health specifically on:

- Appropriate malaria policies and standards based on data from National Malaria Program implementation as well as reviews of best available evidence
- Engagement of stakeholders in malaria-related initiatives
- Major issues and challenges to achieve the national malaria goal
- Identification of priority activities to address identified challenges

Membership of the Expert Committee will comprise of the following specialists: Epidemiologist, Social Scientist, Bio-Statistician, Senior Clinician, Entomologist, Public Health Specialist, Senior Laboratory Scientist and Pharmacist

7.2 National Malaria Steering Committee

The National Malaria Steering Committee will ensure coordination of effective implementation of the National Malaria Strategic Plan.

The functions of the National Malaria Steering Committee will include:

- Review of the annual national malaria prevention and control plan of work
- Support the resource mobilization for the financing of the annual programme
- Monitor performance on the milestones
- Shares quarterly performance reports with the Malaria Expert Committee
- Coordinates annual review of implementation of the National Malaria Strategic Plan

The National Malaria Steering Committee will constitute Technical Committees to support its work. The Committee will comprise representatives from the MoH and partners and it will be chaired by the Director of Health Services whilst the Manager of the NMCP serves as secretary.

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We need the full correct titles and or location (i.e. where can these be obtained) for

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Malaria Programme Review Report 2013

Global Malaria Action Plan

Annexes

Annex 1: Glossary

Ministry of Health – Refers to the Ministry of Health and Social Welfare

Malaria control: reducing the malaria disease burden to a level at which it is no longer a public health problem.

Malaria elimination: the interruption of local mosquito-borne malaria transmission; reduction to zero of the incidence of infection caused by human malaria parasites in a defined geographical area as a result of deliberate efforts; continued measures to prevent reestablishment of transmission are required.

Certification of malaria elimination: can be granted by WHO after it has been proven beyond reasonable doubt that the chain of local human malaria transmission by Anopheles mosquitoes has been fully interrupted in an entire country for at least 3 consecutive years.

Malaria eradication: permanent reduction to zero of the worldwide incidence of infection caused by a specific agent; applies to a particular malaria parasite species. Intervention measures are no longer needed once eradication has been achieved.

Malaria Control Stage: Test Positivity Rate (TPR) <5 % in fever cases

Malaria Pre-Elimination Stage: <1 case /1000 population at risk

Malaria Elimination Stage: 0 (Zero) locally acquired cases

Access is described as a general concept that summarizes a set of more specific dimensions describing the fit between the patient and the health care system. The specific dimensions are availability, accessibility, accommodation, affordability and acceptability

Commodity Security for Malaria

Commodity security for malaria exists when clients can obtain and use malaria commodities when and where they need them

Seasonal Malaria Chemoprevention (SMC)

SMC is defined as “the intermittent administration of full treatment courses of an antimalarial medicine during the malaria season to prevent malarial illness with the objective of maintaining therapeutic antimalarial drug concentrations in the blood throughout the period of greatest malarial risk. (WHO SMC Field Guide, 2012)