

TRAC *Plus*

Center for Treatment and Research on AIDS, Malaria, Tuberculosis and Other Epidemics

NATIONAL MALARIA PREVENTION AND CONTROL MONITORING AND EVALUATION STRATEGIC PLAN 2009-2012

February 2009

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LIST OF ABBREVIATIONS

ACT	Artemisinin based Combination Therapy
AIS	AIDS indicator survey
ANC	Antenatal Care
AQ	Amodiaquine
AIDS	Acquired Immunodeficiency Syndrome
BTC	Belgian Technical Cooperation
CAMERWA	Centrale d'Achat de Médicaments Essentiels du Rwanda
CFR	Case Fatality Rate
CQ	Chloroquine
DDT	Dichlorodiphenyltrichloroethane
DHS	Demographic and Health Surveys
DSS	Demographic Surveillance System
EANMAT	East African Network for Monitoring Antimalarial Therapy
EARN	East African RBM Network
EDP	Essential Drugs Program
EPI	Expanded Program on Immunization
EID	Epidemic Infectious diseases
GFATM	Global Fund to Fight AIDS, TB and Malaria
GIS	Geographic Information System
HMIS	Health Management Information System
HBM	Home –Based Management of malaria
HIV	Human immunodeficiency Virus
IDSR	Integrated Disease Surveillance and Response
IMCI	Integrated Management of Childhood Illness
IMR	
IPTp	Intermittent Preventive Treatment in pregnancy
IRS	Indoor Residual Spraying
ITN	Insecticide-Treated Mosquito Net
LLIN	Long-Lasting Insecticide treated Net
MALARIA UNI	Γ (Programme National Intégré de lutte contre le Paludisme)
MDG	Millennium Development Goal
M&E	Monitoring and Evaluation
MERG	Monitoring and Evaluation Reference Group
MICS	Multiple-Indicator Cluster Survey
MIS	Malaria Indicator Survey
MIS-MERG	Malaria Indicator survey from the RBM MERG
MoH	Ministry of Health
MMR	
MSP	Malaria Strategic Plan
NGO	Non-governmental organization
NISR	National Institute of Statistics Rwanda
NRL	National Reference Laboratory
PLH	
PMI	Presidents Malaria Initiative
PMTCT	Prevention of mother to child transmission
PRSP	Poverty Reduction Strategy Paper
PSI	Population Services International
RBM	Roll Back Malaria
RH	Reproductive Health
SFH	Society for Family Health/PSI
SPH	School of Public Health
SP	Sulfadoxine-pyrimethamine
SWAp	Sector-wide Approach

TRAC	Treatment and Research on AIDS Centre
TRAC Plus	Treatment and Research on AIDS Centre Plus
UNICEF	United Nations Children's Fund
USAID	United States Agency for International Development
WHO	World Health Organization
WHO-AFRO	WHO-African Regional Office
WHOPES	WHO Pesticide Evaluation Scheme

BIBLIOGRAPHY

Ecole de Santé Publique Rwanda, MoH Rwanda, OMS Afro. (2007, July). Enquête Nationale sur les Indicateurs du Paludisme au Rwanda (MIS) 2007.

Institut National de la Statistique, M. d., & Macro, O. (2006). *Rwanda Demographic and Health Survey 2005*.

Ivora Cano V, A. G. (1982). . . Paludisme. In: . *Santé et maladies au Rwanda* . Ministry of Finance, R. (2003). national health accounts.

MoH. (n.d.). HMIS.

MoH Rwanda, N. (2008). Interim Demographic and Health Survey. 2007/2008.

MoH Rwanda, W. (2006, September). Rwanda Health Facility Survey.

National Strategic Plan for the Prevention and Control of Malaria in Rwanda 2008-2012. (2008). Malaria Unit, Trac+.

NISR, M. I. (2008, September). Service Provision Assessment Survey 2007.

Otten, M., Aregawi, M., Were, W., Karema, C., Medin, A., Jima, D., et al. (2009, 01 14). Initial evidence of reduction of malaria cases and deaths in Rwanda and Ethiopia due to rapid scale-up of malaria prevention and treatment. *Malar.J.*

RBM, Measure, DHS, USAID, UNICEF, WHO, CDC, MACEPA. (2008, December). Guidelines for Core Population-Based Indicators (draft). Roll Back Malaria MEASURE Evaluation . .

Sievers, A., Lewey, J., Musafiri, P., Franke, M., Bucyibaruta, B., Stulac, S., et al. (2008). Reduced paediatric hospitalizations for malaria and febrile illness patterns following implementation of community-based malaria control programme in rural Rwanda. *Malar.J.*, 7.

The Globalfund. (n.d.). M&E system strengthening tool.

TRAC. (2006). TRAC Survey report 2006.

Waltruda Van Doren, M. M., Daniel Ngamije, M., & Corine Karema Kakizi, M. (n.d.). The impact of Home based Management of Malaria (HMM) on under five malaria mortality: the Rwandan experience.

WHO. (2005, January). Building capacity in monitoring and evaluating roll back malaria in Africa. A conceptual framework for the Roll Back Malaria Partnership.

WHO. (31 January 2008). Impact of long-lasting insecticidal-treated nets (LLINs) and artemisinin-based combination therapies (ACTs) measured using surveillance data, in four African countries.

WHO. (2007). RBM Malaria Indicator Survey Package. RBM Monitoring and Evaluation Reference Group (MERG).

WHO-Afro. (2003). Monitoring and Evaluation guideline, Rollback Malaria Initiative in the WHO African Region. Brazzaville.

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EXECUTIVE SUMMARY

The National Malaria Prevention and Control Malaria Monitoring and Evaluation Plan (NMPCMEP) is an official document that provides a framework for a comprehensive and coherent malaria Monitoring and Evaluation (M&E) system, in which reliable information is collected and analyzed routinely in order to provide managers, researchers, and donors with up to date information on the malaria situation in Rwanda and the progress towards the goal, objective and targets of the Malaria Strategic Plan (MSP).

This document is organized as follows:

In chapter 1, the Rwandan malaria situation, malaria control strategies and the goal, objective and targets of the Malaria Strategic Plan are described.

In chapter 2, the goal and objectives of the NMPCMEP and the M&E theoretical framework are described. This chapter contains the definitions of M&E, a list of all selected indicators to be used for monitoring, a schema for dataflow and a description of the main data sources.

In chapter 3, the implementation arrangements of the NMPCMEP are described. This includes a section on coordination of the NMPCMEP, and responsibilities of different organizations in terms of data collection and database management, data quality assurance, evaluation of malaria control, capacity building and a dissemination plan. Details of all indicators to be measured are given in an M&E matrix.

In the appendix, the MSP targets are translated into targets for all selected input, process, output, outcome, and impact indicators. Also, the M&E budget is detailed. Finally, the sentinel site data collection template is given.

1. INTRODUCTION

1.1 Background

Sound monitoring and evaluation of Roll Back Malaria (RBM) at country level is critical if the malaria community is to demonstrate progress in achieving outcomes and impact in malaria control efforts. A common, comprehensive and coherent M&E system contributes to more efficient use of data and resources by ensuring that indicators and sampling methodologies are comparable over time and by reducing duplication of efforts. Data generated by a comprehensive M&E system ought to serve the needs of many constituents, including program or project managers, researchers and donors, eliminating the need for each to repeat similar measurements when they might easily use existing data.

This document summarises the context of malaria control in Rwanda in light of the goals and targets for malaria control as outlined in the malaria strategic plan, reviews current issues and opportunities that exist at national, provincial, and district level, and summarizes M&E planning and the necessary capacity to be built in order to fulfil these functions. Furthermore, it provides guidance on specific indicators against which progress will be measured, outlines the available and desired data sources as well as the roles of all stakeholders in malaria M&E.

1.2 Malaria Situation in Rwanda

Malaria is a major, but apparently declining, public health problem in Rwanda which not only compromises the health of the population but also negatively impacts on the nation's economic development. Although malaria is seasonal and has different epidemic patterns, the entire population is at risk, particularly children under five, pregnant women, and People Living with HIV/AIDS. Additionally, people living in epidemic-prone areas are likely to suffer from the severe forms of the disease due to poorly developed immune status.

The country is divided into four natural "malarial ecozones' based on altitude, climate, plasmodic index (Plasmodium infestation), and disease vectors present. In terms of epidemiological stratification, malaria is meso-endemic in the plains while the high plateaus and hills are hypo-endemic. Due to changes in migration patterns and the increase in coverage of malaria control activities, this division in eco-zones is less clear today (Ivora Cano V, 1982).





Figure 1: Malaria epidemiological map for Rwanda

Data from the Health Management Information System indicate that malaria transmission has decreased significantly in the past few years. The reported number of episodes of uncomplicated malaria treated in public sector health facilities fell from 1.5 million in 2005, to 1.3 million in 2006, and 900,000 in 2007. In 2006, malaria was the leading cause of morbidity and mortality representing 37% of outpatient consultations and 41% of hospital deaths; by 2007, these proportions had fallen dramatically to 15% and 22% respectively (clinical malaria - presumed and confirmed -all ages). Additionally, the number of severe malaria cases fell by 32.2% during the same period. In July 2007, the prevalence of malaria was 2.4% in children under five. Similar results were found in the IDHS 2007/08 with a prevalence of 2.1% in children under five and 1.1% in pregnant women. The groups most vulnerable to malaria's devastating effects are pregnant women (8% of MMR), children under five (34% of IMR), and the chronically ill (prevalence of 10%). Malaria also takes a significant financial toll. The direct cost per episode has been estimated at \$2.09 and the indirect cost at over \$5.00. Additionally, studies have shown that malaria costs the nation about 2% of GDP, and consumes 34% of household and 20% of public health expenditure (Ministry of Finance, 2003).

Recent improvements are largely due to program inputs. While fewer than 5% of households owned an insecticide treated net (ITN) in 2000, 15% did so in 2005 and 33% in 2006; in the latter year, 13% of children under five and 17% of pregnant women reportedly slept under an ITN. Since 2006, The program distributed more than 3 millions of LLINs with the support of the GF from which 1,600,000 nets during the

2006 measles campaign; the Malaria Indicator Survey (NISR Rwanda, 2007) found that 54% of households owned at least one ITN and 60% of children under five and pregnant women had slept under one the night before. The IDHS found that 56% o household own at least 1 ITN while 58% of children under five and 62% of pregnant women had sleep under an ITN the night preceding the survey.

DHS data for 2005 showed that < 5% of Rwandan children were brought to care within 24 hours after the onset of fever (Institut National de la Statistique & Macro, 2006). Results were much better by 2006: a survey in April of that year showed that 74.1% of children with fever were brought to health facilities, although only 24.5% sought care within 24 hours and 35.4% within 48 hours (TRAC, 2006). Home-based fever management shows promise to expedite treatment, with up to 80% of those seeking care doing so within 24 hours. The malaria unit database showed that the number of people who received effective treatment nationwide was above 60% in 2007, while the MIS in that year found a parasitemia level in children under five of 2.4%. Two-thirds (67%) of pregnant women received at least two doses of IPT.

1.3 Malaria Control Interventions in Rwanda

The main malaria control strategies in Rwanda are:

- ✓ Improvement of malaria case management through the provision of efficacious and high quality of antimalarial drugs to the population and improvement of the quality of diagnostic and health services.
- ✓ Strengthening of malaria preventive measures through provision of LLINs, and focalized Indoor Residual Spraying (IRS).
- ✓ Promotion of community based interventions such as home based management of fever.
- ✓ Prediction, containment and management of malaria epidemics.

Support Strategies include

- ✓ Strengthening partnerships and coordination of malaria control at all levels.
- ✓ Contribution to health systems strengthening by improving the health information management system.
- ✓ Monitoring and evaluation.
- \checkmark Operational research.
- ✓ Strengthening behavior change communication.

1.4 Goals, objectives and targets of the Malaria Strategic Plan

Goal

Contribute to the improvement of the health status of the population and the fight against poverty by reducing the burden due to malaria.

Objectives of the Malaria control in Rwanda

The overall objective of the malaria control strategic plan is to scale up current interventions and consolidate achievements in order to reach the malaria pre-elimination phase in Rwanda by 2012.

Targets (this table is taken from the MSP 2008-2012)

The program has the following targets for 2012 in relation to 2007 baselines:

- 1. Reduce all cause mortality in the under 5 years old from 103‰ to 50‰ in 2012.
- 2. Reduce U5 mortality attributable to malaria from 8% in 2004 to 3% in 2012.
- 3. Reduce the incidence of confirmed malaria cases from 36‰ in 2007 to 5‰ in 2012.
- 4. Reduce the proportion of U5 morbidity attributed to malaria at health centers from 25% in 2007 to 10% in 2012.
- 5. Reduce the malaria parasite prevalence in children U5 from 2.1% in 2007 to 0.24% in 2012.
- 6. Reduce the number of malaria-attributed deaths at health facilities from 1453 in 2007 to 310 by 2012.
- 7. Reduce the malaria case fatality rate at district hospital from 3.0% in 2007 to 0.8% in 2012.
- 8. Reduce the Slide Positivity Rate (SPR) in fever cases from 22% in 2007 to below 5% in 2012.
- 9. Reduce the proportion of children aged between 6 and 59 months old with severe anemia from 0.4% in 2007 to 0.15% in 2012.
- 10. Reduce the proportion of women of reproductive age with severe anemia from 3.7% in 2007 to 1% in 2012.
- Increase the proportion of children under 5 years with fever that receives timely, correct and affordable treatment within 24 hours after the onset of fever from 62% in 2007 to 90% in 2012.
- 12. Increase the proportion of simple malaria cases (incl. MDS) in the health facilities that are treated in accordance with the national treatment policy from 77% in 2007 to 90% in 2012.
- 13. Increase the proportion of cases of severe malaria in the health facilities that are treated in accordance with the national treatment guidelines/policy from 68% in 2007 to 90% in 2012.
- 14. Increase the proportion of patients that receive antimalarial drugs at health facilities and that are laboratory confirmed before treatment from 45% in 2007 to 80% by 2012.
- The proportion of children U5 that receives ACTs at community level (in the HBM settings) and that will be laboratory confirmed before treatment will reach 70% by 2012.

- 16. Decrease the discordance rate for positive blood-smears at HC level from 30% in 2007 to 10% in 2012.
- 17. Decrease the discordance rate for negative blood-smears at HC level from 1% in 2007 to 0.08% in 2012
- 18. Increase the proportion of HH that possesses at least one LLN from 55.6% in 2007 to 90% in 2012.
- 19. Increase the proportion of HH that possesses at least two LLN increases from 55.6% in 2007 to 90% in 2012
- 20. Increase the proportion of children under 5 years, pregnant women, PLH, poorest of the poor, who slept under a LLIN the previous night, from 56.1% (for pregnant women) in 2007 to 80% in 2012.
- 21. Increase the proportion of pregnant women that receives Intermittent Presumptive Treatment for malaria during their last pregnancy -in accordance with the National Policy - from 17.2% in 2007 to 90% in 2012.
- 22. Detect all malaria epidemics within 1 week of passing the threshold.
- 23. At least 90% of malaria epidemics will be controlled within the 2 weeks following their commencement.
- 24. Increase the proportion of women of reproductive age group that knows the correct modes of transmission of malaria from 60.5% in 2007 to 90% in 2012.
- 25. Increase the proportion of women of reproductive age that knows preventive measures and treatment of malaria from 58.9% in 2007 to 90% in 2012.

1.5. Implementation Approaches for malaria control

Rwanda has a network of public sector health facilities, private health facilities, local and international NGOs involved in malaria control. Community health workers linked to health facilities and community based organizations contribute to malaria prevention and control. The Malaria Unit coordinates national partners undertaking malaria-related interventions and oversees malaria interventions carried out at the local level through health districts and health centers.

Other services of the Ministry of Health also contribute to malaria control. These include: the Health Communication Centre which designs health messages; HMIS that compiles malaria-related data reported by the district hospitals; the Integrated Disease Surveillance and response (EID) which contributes to analysis of malaria-related data and detection of malaria epidemics; the National Reference Laboratory (NRL) that ensures the quality control of laboratory diagnosis in the country. Other key partners in malaria control are CAMERWA and BUFMAR. These non-profit organizations procure and stock essential drugs and supplies for the country's health facilities.

In addition to government resources, many malaria control interventions are funded by partners. While some partners contribute directly to the MOH, others work through health facilities or NGOs. The major funding agencies for the program in general and M & E in particular include the Belgian Technical Cooperation, Global Fund, and PMI.

2. NATIONAL MONITORING AND EVALUATION PLAN

In order to measure progress toward achieving these goals and objectives, appropriate indicators for measuring progress are needed. The following sections review the relevant

indicators and measures of impact, outcomes, and program performance that will be used for monitoring and evaluation of local, national, regional and international goals and targets.

2.1. Goals and objectives of the national Malaria M&E plan

2.1.1. Goal

The goal of M&E plan is to provide a framework for obtaining reliable information to determine progress in malaria control and inform decisions for program management and improvement.

2.1.2. Objectives

The objectives of the plan are:

1) To set the framework for development of Standard Operating Procedures for the collection, processing, analysis and use of malaria data in Rwanda

2) To guide the monitoring of planned activities and measure expected outcomes and impact

3) To provide a comprehensive list of malaria indicators that will guide all stakeholders involved in malaria control interventions that will be reported upon jointly (Three Ones Principle)

4) To outline key actions for implementing malaria M&E in Rwanda

2.2 Theoretical Framework for Monitoring and Evaluation

2.2.1 Definitions

It is important to clearly differentiate between monitoring and evaluation as they serve different purposes in an M&E system.

Monitoring is the routine tracking of the key elements of program performance through record keeping, regular reporting, surveillance systems and periodic surveys such as health facility observation and client surveys. More specifically, monitoring involves generating data on inputs, processes and outputs of an ongoing program over time. Program monitoring also assesses the extent to which the implementation of planned activities is consistent with the project or program design.

Monitoring assists programs to determine which areas require greater effort and will identify areas that contribute to improved performance. In a good M&E system, monitoring contributes greatly to evaluation. Indicators selected for

monitoring will be different depending on the reporting level within the health system and the interventions deployed. At the national and sub national levels of implementation, monitoring of inputs (human resources, financing, supplies), processes (procurements and training) and outputs (services delivered) is essential for assessing program performance. The regional and global levels are mostly concerned about outputs.

- Evaluation is the periodic assessment of the change in targeted results that can be attributed to an intervention. It attempts to link a particular outcome or impact directly to a particular intervention after a period of time. It helps to determine the value or worth of a particular program. Evaluation deploys various techniques including social research methods, to systematically investigate a program's effectiveness and impact in order to determine the extent to which the invested resources have yielded the expected results.
- Reporting is the documentation of results of monitoring and evaluation and the presentation of them to appropriate audiences at specified times. To help ensure efficiency, the purpose of reporting should be clearly defined. Key purposes may be accounting for funds expended or feeding data directly into a decision-making process. The timeframe of reporting should also be defined to suit its purpose. While it is reasonable to expect reports on outputs delivered from a given investment regularly, perhaps even quarterly, it may be inappropriate to compile reports on outcomes within this same timeframe.

Table 1: Other key M & E definitions

Inputs: are resources used to conduct and carrying out a project or a program. They include staff, finance, materials, and time. Example: funding obtained to purchase ITNs

Processes are activities in which program resources (human and financial) are used to achieve the results expected from the program e.g. number of meetings, workshops, etc.

Outputs are immediate and short-term results obtained by the program through the execution of activities. For example, the number of supervision missions and reports, number of commodities purchased and/or distributed number of staff trained, etc.

Outcomes are immediate short-term effects including positive behavior change. For example, use of ITNs by pregnant women or under-five children.

Impacts are longer term effects of a program and generally refer to overall long-term goals. For example the RBM goal of halving malaria-related morbidity and mortality by 2010.



Figure 2: Monitoring and Evaluation Basic Framework

2.2.2. Main data sources in Rwanda

There are several sources of malaria data in Rwanda that include health management information systems, home based management of fever reporting system , LLINs reporting system by the community health workers, activity reports e surveys and special studies. As much as possible, malaria M & E will build on the existing systems and only deploy special studies and/or approaches if the existing systems cannot provide the required information. This will strengthen the health system and avoid the creation of parallel and unsustainable systems.

In the next section we review the most important systems with emphasis on how they can be harnessed to better serve the M and E needs of the Malaria Unit. (see also annex)

Figure 3: Schematic diagram showing data flow from the community level to the National level

2.2.2.1. Health Management Information System (HMIS)

In Rwanda the Health Management Information Systems (HMIS) collects routine information for monitoring health and disease indicators, as well as expenditure and other management information within the public health sector.

Data collected by the HMIS includes probable and confirmed malaria cases and deaths for 4 age groups: 0-11 months, 1-4 years, 5-14 years and 15 and above. In addition the HMIS monthly reports provide data on malaria drug consumption. The information is reported monthly from health facilities to district hospitals which in turn transmit data to the central HMIS unit in the MOH. The data manager at the Malaria Unit collects the data from the HMIS unit on flash disk and updates the Malaria Unit database. Data received by the HMIS are often incomplete and/or reported late. In addition, the data from HMIS are not systematically analysed, and feedback provided to the health facilities. An English translation of the monthly reporting forms used to collect data for the HMIS are included in annex.

With the support of partners, the HMIS was assessed in 2006. Many of the problems stem from human resource capacity, data demands for specific programs, quality and completeness of data. Further strengthening of capacity within health facilities and within the district hospital (the focal point for ensuring timely and complete information reported at the local level), is needed.

In early 2009 the Community Health Desk worked with the HMIS unit to develop a standardized set of procedures for data collection and reporting for Community Health Workers (CHWs). These agents are responsible for providing home-based malaria care for children with presumptive malaria. Data on number of children treated before and after 24 hours of onset of fever as well as number of ACTs distributed from this system should become available in mid-2009.

The HMIS also includes weekly reporting module for disease surveillance, but very limited data make their way to the national level. This module is currently being enhanced by TracNet as part of an integrated disease surveillance system (IDSR) that will use mobile phone technology to ensure efficient and timely data about epidemic diseases, including malaria. The IDSR is discussed in detail below.

2.2.2.2 Sentinel Surveillance Systems

Rwanda established sentinel sites for monitoring antimalarial drug efficacy in 1999 based on agreed criteria¹. One sentinel site was chosen per province and is representative of the epidemiology of malaria in Rwanda as shown in figure. These

¹ A health centre in a functioning health district, has a functional laboratory . One sentinel site was established per province making a total of 10.

sentinel sites collect and report monthly data on malaria cases and deaths. Periodically, the sites conduct antimalarial drug efficacy studies, insecticide resistance monitoring and an annual malariometric survey in the catchment population of each site.

Each sentinel site is equipped with a cellular phone, a motor cycle, trained staff and a specially recruited malaria focal person to oversee sentinel surveillance activities. Data are collected on special forms and sent to the Malaria Unit , where they are checked for completeness and correctness at the Malaria Unit and then entered in an Access data base. Feedback is provided through meetings with the malaria focal points.

However, there is need for continuous capacity building and motivated staff to ensure that accurate data collection and basic analysis is carried out on site. There is also need for more staff to supervise the community based activities and laboratory technicians to ensure 24 hour laboratory services.

With the scaling up of malaria control interventions in Rwanda, data from the sentinel sites will be extremely useful for alerting the programme on progress in malaria control and possible need for reviewing implementation strategies. Collected data from sentinel sites have been used to determine malaria trend and take appropriate measures. These include but not limited to; monitoring animalarials' efficacy, insecticide resistance, SP efficacy in IPT for pregnant women, detect changes in the environment, risk factors and health practices among the community and the effects of these changes.

Since sentinel sites are located in geographically representative areas in the country, collected data from sentinel sites may be generalized for the whole country. Data from sentinel sites have been providing malaria situation in the country and have been used as baseline information before conducting surveys covering the whole country.



Figure 4: Malaria Sentinel Surveillance Sites

2.2.2.3 Disease Surveillance

In addition to the collection of routine data through the HMIS, and data collection by separate disease control programs, Rwanda operates an Integrated Disease Surveillance and Response (IDSR) system for early detection and response to priority communicable diseases including malaria. The system reports cases and deaths due to malaria.

The system itself operates from TRAC Plus that collects and handles only data on diseases of epidemic potential.

The Malaria Unit will work together with IDSR unit to ensure that malaria-related data are captured for early detection and response to epidemics.

The key indicators on epidemic preparedness and response could be measured through the IDSR.

2.2.2.4 Household surveys

Surveys provide useful measures of population- and facility-based coverage indicators for gauging progress in scale up efforts at national or sub-national level.

Periodically, Rwanda conducts the Rwanda Demographic and Health Survey (RDHS) and the Malaria Indicator Surveys (MIS) whose methodologies are similar. In addition,

the questionnaires are standardized and structured and change little between surveys hence, DHS and MIS results are comparable over time.

2.2.2.4.1 Demographic and Health Survey (DHS).

An RDHS was conducted in 1992, 2000 and 2007/2008. The DHS collected data on under-five all-cause mortality, treatment of fever among children under five, possession and use of ITNs as well as anaemia prevalence. An interim DHS was conducted in 2007-2008.

2.2.2.4.2 The Malaria Indicator Survey

Roll Back Malaria developed a standardized Malaria Indicator Survey (MIS) package and guidelines for assessing core global malaria coverage indicators at the household level². The survey package contains standard methods and questions for measuring household level possession and usage of insecticide-treated mosquito nets, treatment of febrile children with anti-malarial medicines, and use of intermittent preventive treatment for the prevention of malaria during pregnancy, prevalence of anaemia and malaria parasitaemia. The 1st MIS in Rwanda was conducted in mid-2007 and the next will be in 2010.

2.2.2.5 Health facility surveys

The tools and approach of this instrument are based mainly on that developed for evaluating the accelerated malaria control activities in the African Region and the integrated management of childhood illness (IMCI) instruments for a multi country evaluation. The instrument assesses the clinical skills of health care staff and the available supplies and equipment at the health facility. It also assesses the inpatient clinical practices, the dispensary and pharmacy services as well as the information system of the health facility. The advantage of the IMCI approach is that the assessment is not limited to skills for the management of malaria. It also addresses the management of the sick child, which includes children presenting with malaria. The health facility survey should also be undertaken as part of routine supervisory visits. The last malaria health facility survey was conducted at the end of 2004 and beginning of 2005 to assess the status of implementation of the new antimalarial drug policy. In May 2007, Rwanda conducted a service availability mapping survey that included malaria indicators.

2.2.2.6 NMCP Monitoring System

> ITNs

² The RBM Malaria Indicator Survey Package is available from RBM Monitoring and Evaluation Reference Group (MERG) website <u>http://rbm.who.int/merg</u>

The MALARIA UNIT through community health workers has established an ITN database that keeps track of all ITNs distributed through MCH services. It is a useful source of information on number of ITNs distributed and net status (intact or torn).

≻ HMM

The HMM database keeps track of all the inputs, processes and outputs of HMM. It is maintained by the HMM focal point in the MALARIA UNIT. Data are reported by the CMDs to the health facilities, which collate that data using special forms and submit to the MALARIA UNIT.

> IRS

Malaria Unit in collaboration with PMI has establishing a reporting system (and share the database) particularly during IRS operation which collects information such as house hold coverage, number of structures sprayed and IRS related side effects which collected by data managers, aggregated and analyzed at national level.

2.2.2.7 Community Health Worker Activity monitoring system

Until recently the HMIS was not collecting data on children treated at the community level, IPT uptake by pregnant women, ITN distribution and stock out of antimalarial drugs. These services have been reported by a parallel system established by the Malaria Unit . The data collected by parallel reporting system are used for monitoring health facility needs for antimalarial drug supplies and other malaria-related commodities. However with the establishment of the new SISCom, all malaria activities at community level will be captured in the SISCom as well as through the community PBF.

2.3 M&E efforts of other Ministry of Health programs

Other national health programmes/units, such as EPI, TRAC, MCH and the Essential Medicines Programmes (EMP), may operate parallel M&E systems. The Malaria Unit will establish formal M & E linkages with these programmes.

2.3.1 TRAC

With the current concept of changing TRAC into TRAC Plus where by Malaria, Tuberculosis and HIV programs will be under the same organisation, it is anticipated that monitoring and evaluation will be harmonized and will be under the same Unit/Directorate. In so doing there will not be duplication of efforts and resources in data collection and dissemination. It will be possible to collect data through the same channel such as TRACnet. This is a system where by an automated system collects information through direct communication using a mobile phone in every ARV site provided that there is mobile phone network coverage. This method has proved to be beneficial in sharing of information on a wide range of areas such as drug management to prevent stock outs, avoiding registering one patient at more than one site and patient

follow up. This system may also improve timeliness and completeness of the reporting system in sentinel sites, health facilities and community level in HBM.

2.3.2 EPI and Maternal child Health Unit

The Expanded Programme of Immunization in collaboration with the National Malaria Control Program (September 2006) conducted an integrated Measles campaign at national level that has registered significant achievements in increasing ITN coverage in under fives by distributing nearly 1.5 million ITN. Integrated measles campaign will continue to be done every 3- 5 years. Through a similar partnership, they have developed a management tool that will capture information on ITN distribution in routine vaccination and other child survival programs.

Maternal child health Unit plays a big role in integrating preventive measures such as IPT strategy and distribution of ITNs to pregnant women. IMCI component will also include HBM

3. IMPLEMENTATION ARRANGEMENTS OF MALARIA M&E

In this section, the implementation arrangements for all the M & E operations, coordination and an integrated action plan are described.

3.1 Coordination of malaria M & E

In order for all the partners to subscribe to one M & E plan in the spirit of "three ones", the Malaria Unit will establish an M&E subcommittee aimed at coordinating M&E efforts.

Key functions of the M&E subcommittee are to:

- Co-ordinate malaria M&E activities
- Ensure that best practices in malaria M&E are promoted
- Reach consensus on key indicators to be monitored and continually revised the core indicators as well as harmonizing them with the overall Health Sector.
- Ensure that adequate technical support on survey design, data collection, analysis and interpretation is available
- Support the Malaria Unit M&E staff to prepare and update the country malaria profile
- Ensure that technical support to evaluate malaria control on a periodic basis is available
- Mobilize resources to support M&E activities

$3.2\ Malaria\ M\ \&\ E$ within the Malaria Unit , Programmes and Key Partners

A description of the data collection methods is in section 2.2.2

The Malaria Unit has established an M &E unit that will collaborate with all the key stakeholders involved in malaria M & E.

3.2.1 Malaria M & E within the Malaria Unit

The Malaria Unit M & E sub-unit shall:

- Collect, compile relevant M&E information
- Establish and maintain the malaria database
- Establish and maintain functional linkages with other relevant partners involved in malaria M&E, including the Ministry of Health (e.g. HMIS or IDSR) and elsewhere (e.g. Central Statistics Office)
- 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 Subcommittee

The M & E sub-unit is staffed by 2 medical officers with public health training and a data manager. In addition, other personnel in the Malaria Unit with complementary and specialized skills complete the M & E capacity. Well-planned and appropriately structured in-service training in data management, analysis and interpretation, support supervision, etc. will enhance M & E capacity of the staff.

3.2.2 Malaria M & E within other programs and among partners

The National Institute of Statistics of Rwanda (NISR) is responsible for conducting nationally representative surveys such as DHS. During the MIS 2007 they assisted the Malaria Unit and SPH in the methodology, determining the appropriate sample size, selection of enumeration areas, survey personnel, data management as well as analysis. All future household surveys in Rwanda will be conducted in partnership with NISR to ensure that the data collected are comparable over time.

The School of Public Health SPH of the University of Rwanda has experience with conducting surveys and had been involved with the NISR in the MIS 2007. The SPH can also contribute to capacity development especially in the areas of data management and epidemiology.

PSI is the main implementation partner on ITN distribution and social marketing of home management of malaria. Their ITN database and activity monitoring system is a useful source of data on ITN availability and usage in the country. PSI also has considerable expertise in conducting household surveys especially on ITN use among their clients and BCS.

CAMERWA is the main procurement agency for essential drugs and health related commodities such as ITNs . It also distribute antimalarials to district pharmacies. Data form their logistics management information system is useful for monitoring commodity availability at service delivery points.

The Global Fund monitoring system has been used to track activities funded by the Global Fund. An M & E officer based in both the PMU and Malaria Unit help facilitate monitoring and evaluation of activities.

The M & E sub-unit has strong linkages with HMIS and IDSR as well as TRAC Plus, EPI, etc and will obtain relevant malaria data on a regular basis. It shall also liaise with other stakeholders described above to harness relevant information on malaria prevention and control.

3.2.3 Monitoring of malaria control programs

The Malaria Unit as well as implementing partners have established activity monitoring systems that are used to report on input, process and output indicators.

The Malaria Unit will mainly track key program indicators. Table 3 shows these key indicators, their targets, frequency of collection and how the data will be used.

3.2.4 Evaluation of Malaria Control in Rwanda

Program evaluations will comprise of internal and external components. The Malaria Unit will also commission special surveys that evaluate specific interventions and these may not always be nationally representative.

The impact indicators are related to reductions in malaria morbidity and mortality and the improvement in the socio-economic indices resulting from expenditure on malaria prevention and control. Data on malaria cases and deaths will be collected continuously from the HMIS and sentinel surveillance sites. Data on anaemia and parasite prevalence will be collected through household surveys.

The main outcome measurements are on the coverage of ITNs, access to treatment and IPT at household level. Household surveys shall be conducted every 2-3 years. Table 3 shows the key indicators, sources of data, targets and responsible entities.

Evaluations that will be conducted regularly in Rwanda are shown in Table 2and details are shown in the M & E matrix.

	Evaluation	Frequency	Responsible Entity	Comments
1	GFATM Evaluation	Annual	GF, Malaria Unit	The recent one was conducted in 2007
2	Malaria Indicator Survey	2 years	Malaria Unit , NISR, SPH	the recent one was conducted in 2007
3	Demographic and health survey	5 years	NISR	Interim DHS was conducted in 2007- 2008
4	Health facility survey	2-3 years	Malaria Unit	
5	Evaluation of strategic plan	5 years	Malaria Unit, WHO	Next 2010
6	Sentinel Surveillance	Monthly, Annually	Malaria Unit	Under restructuration based on the pre- elimination phase preparation
7	HMIS	Monthly Quarterly Annually	МОН	
8	IDSR	Monthly	MOH	
9	Program Performance assessments (PPAs)	Bi-annually	Malaria Unit, Partners	Assess program reports

Table 2: Evaluation Processes in Rwanda 2008-2010

The Malaria Unit shall coordinate and collaborate with key stakeholders to conduct the evaluations. Nevertheless, the Malaria Unit in collaboration with implementing partners will conduct semi-annual performance assessments (PPAs) to monitor coverage and progress toward targets. Data from the PPAs will offer a basis for triangulation and comparison with service statistics. This will allow district health staff to identify low-coverage areas and remedy problems proactively. It will also motivate health center staff to perform better, through peer acknowledgement of good performance, and by allowing them to rapidly identify and address problems. The results will be fed into the databases and various reports as outlined in section 3. The information highlighted in the periodic evaluation reports will help guide the direction and emphasis of the program in the short and long-term.

3.3 Data Quality Assurance

A. The Malaria Unit will:

1. In collaboration with HMIS,

- Facilitate and coordinate the standardization of instruments and methodologies for data collection. Besides, it will establish data quality assessment protocols in a participatory and consultative manner with all the stakeholders.
- Verify rapidly the quality of reported data for key indicators at selected sites and the ability of data-management systems to collect, manage and report quality data.
- Implement measures with appropriate action plans for strengthening the data management and reporting system and improving data quality.
- Monitor capacity improvements and performance of the data management and reporting system to produce quality data.
- Integrate data quality assessment within the current supportive supervision activities

2. Conduct integrated facilitative supervision at the district level and it will ensure that district staff receives training in effective approaches to supervision. This may include the development of supervisory checklists as well as problem-solving approaches to supervision. Currently an integrated supervision tool is under development at the MOH and will be used for main heath programs. There's also an opportunity within TRAC *Plus* to integrate a supervision tool for the 5 specific disease units activities at different level of health care.

3. Coordinate sustained capacity building and training programs in M&E at all levels, especially in the areas of data collection, analysis, interpretation, production of information and use of the data for decision making and programming.

4. Analyzing the data monthly, and providing regular feedback on inconsistent data

Frequency of Conducting Routine Data Quality Assessment

There will be two levels of Malaria Routine Data Quality Assessment:

- (1) Malaria Unit, in collaboration with M&E Unit Task Force leading the Team to assess District Hospitals and a few sampled Health Centers. This can be done every six months.
- (2) District M&E Officer leading the Team to assess Health Centers. Since this is designed to be part of supportive supervision, every effort must be implemented to assess all the Health Centers in the respective district within quarter. It is recommended that, if resources are not available to visit all sites in a given quarter then a rolling schedule should be arranged so that each site is visited as often as possible.

Decide on the indicators.

The criteria for selecting indicators can be:

- The indicator is one of the key indicators among ten top indicators
- The indicator is one of the national level indicators
- The indicator is one of the indicators audited during the last DQA in order to assess the implementation of recommendations given previously.

Selection of the health facilities:

Routine Data Quality Assessment should be integrated into the current routine supervision. This means that all sites should be visited on a regular basis by District M&E Officer.

However, the Malaria Unit cannot visit all the health facilities, so they will have to sample a few health facilities following the proposed sampling procedures:

Prepare a list of health facilities by their latest reporting numbers on the indicator selected then use the following selection procedures

- Purposive
- Probability Proportional to Size Sampling procedures

1. Prepare a list of primary sampling units with a corresponding measure of size for each;

2. Starting at the top of the list, calculate the cumulative measure of size and enter these figures in a column next to the measure of size for each health facility;

3. Calculate the sampling interval (SI) by dividing the total cumulative measure of size for the domain or stratum (M) by the number of health facility to be selected (a)- that is SI = M/a; 4. Select a random number (RS) between 1 and (SI). Compare this number with the cumulated measure of size column. The health facility within whose cumulated measure of size the number

(RS) falls is the first sample unit;

5. Subsequent health facilities are chosen by adding the sampling interval (SI) to the number identified in step (4); that is RS + SI, RS + 2SI, RS + 3SI, etc;

This procedure is followed until the list has been exhausted.

Note: in selecting sample Health Facilities, it is important that the decimal points in the sampling interval be retained. The rule to be followed is when the decimal part of the sample selection number is less than .5, the lower numbered cluster is chosen, and when the decimal part of the sample selection number is .5 or greater, the higher numbered cluster is chosen.

3.4 Capacity building

The Malaria Unit has identified gaps in M & E within the country with the aid of the GF MESST. The existing gaps in M&E skills and infrastructure will be filled to the realization of the M&E plan. The strategy will include institutional capacity building, strengthening of existing structures and systems, building linkages between ongoing systems, and development of procedures and guidelines for implementation. Measures to ensure the long-term sustainability of a good malaria control M&E system will include technical guidance, close supervision, periodic and continued capacity building through on-site mentoring and coaching.

3.4.1 Staffing and Competencies

A first step to ensure good malaria control M&E systems will be to examine staffing needs and needed staff competencies. The Malaria Unit will examine the full set of M&E tasks to be done, identify personnel terms of reference for the sets of tasks, examine existing staff capacity and establish a plan for strengthening current staff capacities and identifying additional competent staff to fill needed positions.

Ensure key staff are trained and retrained in specialized monitoring techniques (drug efficacy testing and monitoring, pharmacovigilance, and insecticide resistance and vector behavior monitoring). Such specialized monitoring could be delegated to research institutions or done in collaboration with the Malaria Unit. Consequently, the Malaria Unit needs to have the capacity to network with these organizations, oversee the conduct of the tests, manage available data, analyze and correctly interpret reports. Improving data quality requires making changes at the source, where data are actually collected.

3.4.2 Infrastructure, Tools and Technologies

The Malaria Unit will assess its current infrastructure and identify gaps and needs for a fully operational M&E unit to undertake the necessary primary or secondary collection, management, analysis and dissemination of information. Examples of further strengthening will include, but not be limited to provision of space, computer soft and hardware as well as appropriate technology such as PDAs for conducting surveys.

3.5 Dissemination Plan /Information Products

The main results expected from M&E plan are:

3.5.1 Malaria data properly managed

Malaria control interventions generate large amounts of information that should be captured and properly managed. The range of data includes HMIS data, activity reports, commodities and supplies procured, survey data, data from drug efficacy, entomological and insecticide resistance monitoring, operational research findings etc.

The WHO GMP has developed an Access database that shall be adapted to Rwanda and used to track all the key malaria activities in the country. Key implementing partners will also maintain databases but will share reports on achievements with the Malaria Unit , that will be summarized and fed into the database. Such data will be easy to retrieve, analyze and use for the production of reports.

3.5.2 Monthly monitoring report

Monthly monitoring reports summarize inputs, outputs and track the implementation of planned activities. This information will enable the Malaria Unit and partners to track progress made in program implementation and shall be discussed during monthly review and re-planning meetings as well as contribute to quarterly reports.

3.5.3 Quarterly review report

The monthly reports will be summarized in the quarterly review reports which will include information on key process and output indicators against set targets for the quarter. This information can then feed into the (annual) health sector review and planning processes, Joint Review Missions on specific subjects, reviews for the GFATM, etc.

3.5.4 National malaria meeting

This activity will be 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-plan for the new year. These meetings will show-case some best practices aimed at spurring scale up.

3.5.5 Annual malaria report

At the end of every financial year, the Malaria Unit will produce an Annual Malaria Report that objectively highlights key achievements, constraining factors and the way forward. The source of information for the report is from the reports listed above; work done by other partners and special studies. The Annual Malaria Report will be used by the Malaria Unit , the Ministry of Health and partners for review and planning processes as well as feed into the National Annual Health Sector Report.

4. ANNEXES

ANNEX 1 : Monitoring and Evaluation matrix

Table 3: Monitoring and Evaluation matrix_ impact and outcome indicators

IMPACT INDICATORS

Indicator	Definition	Source of data	Frequency	Level of measurement	Responsible entities	Baseline	Year		Targets (M&E doc)			
						Baseline		2009	2010	2011	2012	
		I	MPACT INDIC	CATOR's								
1. All-cause under-5 mortality rate	The probability of dying before the 5th birthday, expressed per 1000 live births	DHS	5years	National	NISR	103‰	2007/8	NA	80‰	NA	50‰	
2. U5 mortality attributable to malaria by 70% by the end of 2012	Numerator: total number of U5 death due to malaria Denominator: total number of U5 deaths	HSSP	Every year	National	MOH/HMIS	8%	2 004	6%	5%	4%	3%	
3. Incidence of confirmed malaria cases (all ages)	Numerator : Total number of confirmed and suspected malaria cases in a yearDenominator: total population in year	HMIS	Every year	National	MOH/HMIS	44.9‰	2007	36‰	25‰	15‰	5‰	
4.Incidence of clinical malaria cases (all ages)	Numerator: number of malaria cases treated. Denominator: total population in year	HMIS	Every year	National	Malaria Unit/ HMIS	101‰	2007	90‰	70‰	60‰	50‰	
5 Slide Positivity rate in fever cases	Numerator: Number of positive slide Denominator: Number of slides tested for malaria	HMIS	Every year	National, Sub- national	Malaria Unit	225 (2007 HMIS)	2007	18%	13.5%	9%	less than 5%	
6 Laboratory confirmed malaria death in health facilities	Number of confirmed malaria death	HMIS	Every year	National, sub- national	Malaria Unit	1017	2007	845	770	552	279	

Indicator	Definition	Source of data	Frequency	Level of measurement	Responsible entities	Baseline	Year		Targets (M&E doc)			
						Baseline		2009	2010	2011	2012	
7. Proportion of morbidity attributed to malaria at health facilities	Numerator: reported malaria cases Denominator: All disease cases at health facilities	HMIS	Every year	National	MOH/HMIS	25%	2007	25%	20%	15%	10%	
8. Malaria parasite prevalence in the under five	Numerator: Children aged 6-59 months with malaria infection detected by microscopy. Denominator: Children aged 6-59 months tested for parasitemia with microscopy during household surveyed	MIS, Malariometric survey	Every 2 years, Every 1 year	National	Malaria Unit , NISR	2.1% (DHS)	2007/8	NA	NA	0,60%	0.24%	
9. Number of malaria attributed deaths at the health facilities	Numerator:Number of deaths in HFs that are attribute to malaria Denominator: Total number of deaths of registered in all HFs countrywide	HMIS	Every year	National	Malaria Unit	1453	2007	1126	963	637	310	
10.Number of malaria attributed deaths under five at the health facilities	Numerator :Number of deaths under five in HFs that are attribute to malaria Denominator : Total number of deaths of registered in all HFs coountrywide	HMIS	Every year	National	Malaria Unit	255	2007	200	150	140	127	
Proportion of children under five with severe anemia (<7 g/dl)	Numerator: number of under five with severe anaemia. Denominotor: total number of children under five surveyed	MIS/DHS	Every two year and five year	Natonal	Malaria Unit/ NISR							
OUTCOME INDICATORS						9%	2007/8	8,50%	8%	7,50%	7%	
		CA	SE MANAGM	IEMENT								
1. Case fatality rate of malaria at health district hospital	Numerator : Number of deaths in DHs that are due biologically confirmed malaria Denominator : Total number of biologically confirmed malaria cases registered in all HFs countrywide	s HMIS 1 f s	Every year	National	Malaria Unit	3,0% (2007/8 HMIS)		2.50%	1 90%	1 40%		

Indicator	Definition	Source of data	Frequency	Level of measurement	Responsible entities	Baseline	Year		Targets (M&E doc)			
						Baseline		2009	2010	2011	2012	
2. Proportion of children under 5 years with fever in the last two weeks who received antimalarial treatment according to the national policy within 24 hours from the onset of fever	Numerator: Number of children under 5 years old who had a fever in previous 2 weeks who received recommended antimalarial treatment according to national policy <24 hours from onset of fever. Denominator: Total number of children under 5 years old who had a fever in previous 2 weeks	MIS, DHS	Every 2 and 5 years	National	Malaria Unit , NISR	62%	2007	65%	75%	85%	90%	
3. Proportion of under five with malaria/fever receiving appropriate treatment within 24h (in HBM district)	Numerator: number of children under five who receive antimalarial treatment within 24 h. Denominator: number of under five who received antimalarial treatment in HBM districts	HBM database	Every year	Sub-national	Malaria Unit	83%	2007	85%	87%	90%	95%	
4. Proportion of under five with malaria/fever receiving correct treatment(health facilities)	Numerator: number of children under five who receive antimalarial treatment within 24 h. Denominator: number of under five who received antimalarial treatment in HBM districts	Health facilities survey	Every two year	National	Malaria Unit/ WHO	84%	2008	82%	85%	88%	90%	
5. Proportion of people with malaria/fever receiving correct treatment(health facilities)	Numerator: number of patients who receive antimalarial treatment within 24 h. Denominator: number of patients who received antimalarial treatment surveyed	Health facilities survey	Every two year	National	Malaria Unit/ WHO	ND	2008	60%	70%	75%	80%	
6. Proportion of severe malaria cases at the health facilities that are treated in accordance with the national treatment guidelines/policy	Numerator : Number of severe malaria cases treated in accordance with national guidelines Denominator : Total number of observed cases of severe malaria	Health facility survey	Every 2 years	National	Malaria Unit/ WHO	68%	2006	70%	75%	80%	85%	
7. Proportion of patients who receive antimalarials at health facilities that are laboratory confirmed before treatment	Numerator :Number of treated malaria cases with positive laboratory result Denominator : Total number treated malaria cases	Sentinel sites, HMIS	Every year	National	Malaria Unit/ HMIS	45%	2000	52.5%	60%	75%	80%	

Indicator	Definition	Source of	Frequency	Level of	Responsible	Baseline	Year	Targets (M&E doc)			
		data		measurement	entities						
						Baseline		2009	2010	2011	2012
8. Proportion of children under 5 receiving antimalarials at community level that are laboratory confirmed before treatment	Numerator:Number of treated malaria cases with positivelaboratory result. Denominator: Total number treated malaria cases at community level	Sentinel sites, HMIS	Every year	National	Malaria Unit						
			DDEVENIO			Unknow		20%	40%	60%	70%
PREVENTION											
			LLINs								
1. Proportion of households with at least one LLIN	Numerator: Number of households surveyed with at least one mosquito net, which has been treated within 12 months or has been permanently treated. Denominator: Total number of households surveyed	MIS, DHS	Every two years; Every five years	National	NIS /Malaria Unit						
						55,60%		70%	90%	90%	90%
2. Proportion of households with at least two LLINs	Numerator: Number of households surveyed with at least two mosquito net, which has been treated within 12 months or has been permanently treated. Denominator: Total number of households surveyed	MIS ,DHS	Every two years; Every five years	National	NIS	23,70%		60%	80%	80%	80%
3.Proportion of children under five who own LLIN	Numerator: number of children under five who own LLIN. Denominator: number of children under five surveyed	MIS	Every two year	National	Malaria Unit	56,10%		75%	85%	90%	95%
4.Proportion of pregnant who own LLIN	Numerator: number of pregnant women who own LLIN. Denominator: number of pregnant women surveyed	MIS	Every two year Every five year	National	Malaria Unit	55.6%		75%	80%	85%	95%
5. Proportion of children under five years old who slept under a LLIN the previous night.	Numerator : Number of children under five who slept under an LLIN the previous night. Denominator: Total number of children under five years surveyed	MIS, DHS	Every two years; Every five years	National	NISR/ Malaria Unit	60%		65%	70%	75%	80%

Indicator	Definition	Source of data	Frequency	Level of measurement	Responsible entities	Baseline	Year		Targets (M&E doc)			
						Baseline		2009	2010	2011	2012	
6. Proportion of pregnant women, who slept under a LLIN the previous night.	Numerator: Number pregnant who slept under an LLIN the previous night Denominator: Total number of pregnant women surveyed	MIS, DHS	Every two years; Every five years	National	NISR/ Malaria Unit			2003	2010	750/		
7. Proportion of persons owning LLINs are using them	Numerator: number of persons who using a LLIN. Denominator: number of persons who	MIS DHS	Every two years; Every five years	National	NISR/ Malaria Unit	60%		65%	70%	/5%	80%	
	owning a LLINS	INDOC	D DESIDITAT	SPDAVINC		NA		65%	70%	75%	80%	
1 D (1 1			JK KESIDUAI		N 1 1 11 1	1		1				
1. Proportion of breeding sites in targeted areas that is treated by larvicide according to the national vector control guidelines	Numerator : Number of breeding sites treated by larviciding Denominator: Number of targeted breeding sites	Malaria Unit activity report	Every year	Targeted area	Malaria Unit	Unknown		50%	60%	70%	80%	
2 Proportion of household in targeted areas that was sprayed in the past 12 months (depending on insecticide holding capacity)	Numerator: Number of sprayed households with a residual insecticide in the last 12 months. Denominator: total number of targeted households	Malaria Unit activity report	Every year	Targeted area	Malaria Unit	Chkhown		50%	0070	7070	0070	
			F	T. (1		NA		75%	80%	85%	90%	
3.Proportion of targeted structures which are sprayed	Numerator: Number of sprayed households with a residual insecticide in the last 12 months. Denominator : total number of targeted households	Malaria Unit activity report	Every year	Targeted area	Malaria Unit							
		INTERMITTE	NT PRESIME	TIVE TREAT	MENT	94%		94%	95%	95%	96%	
							1					
1. Proportion of women who received intermittent preventive treatment for malaria during ANC visits during their last pregnancy according to the national policy	Numerator: Number of women who received IPT according to the national policy during ANC visits to prevent malaria during their last pregnancy that led to a live birth within the last 2 years. Denominator: Total number of women surveyed who delivered a live baby within the last 2 years.	MIS, DHS	Every two years; Every five years	National	NISR/ Malaria Unit	64.90%	2007	75%	80%	85%	90%	

Indicator	Definition	Source of data	Frequency	Level of measurement	Responsible entities	Baseline	Year	Targets (M&E doc)			
						Baseline		2009	2010	2011	2012
BEHAVIOUR CHANGING COMMUNICATION											
1. Proportion of women of reproductive age group that knows the correct modes of transmission of malaria	Numerator:Number of women that know the mosquito bite as the mode of transmission of malaria Denominator: Total number of women surveyed	MIS, DHS	Once in 2 years for MIS and once in 5 years for DHS	National	NISR/ Malaria Unit	60,50%		67.5%	75%	82.5%	90%
2 Proportion of women of reproductive age group that knows the correct measures for preventing and treating malaria	Numerator: Number of women that know the malaria can be prevented through the use of mosquito nets. Denominator: Total number of women surveyed	MIS, DHS	Once in 2 years for MIS and once in 5 years for DHS	National	NISR/ Malaria Unit	58,90%		67.5%	75%	82.5%	90%
3. Percentage of mothers who know the cause of, symptoms of, treatment for or preventive measures for malaria	Numerator: Number of women that know the cause of, symptoms of, treatment for or preventive measures for malaria. Denominator: Total number of women surveyed	MIS, DHS	Once in 2 years for MIS and once in 5 years for DHS	National	NISR/ Malaria Unit	NA		67.5%	75%	82.5%	90%

Table 4: Monitoring and Evaluation matrix output and process indicators

OUTPUT INDICATORS

	Indicators	Source of data	Frequency	Level of						
Service Delivery Area				measurement	Baseline	Year	2009	2010	2011	2012
	PREVENTION									
Vector Control: LLINs	Proportion and number of public and private not for profit HC that have had no stock out of LLIN in EPI services	Distribution report/ /Malaria Unit , District Hospitals	Quarterly	National, district	NA	2007	98.5%	99.5%	100%	100%
	Number of LLINs purchased	Bills of loading, Delivery notes, stock reports/CAMERWA and district pharmacies	Annually	National	2159729	2008	4 779 117	966 492	993 554	4 847 593
	Number of children under five receiving LLINs through routine immunization (LLINs for NB included)	HMIS report/ Malaria Unit	quarterly	National, District	1761957	2008	1966515	2445648	2890318	3347438
	Number of pregnant women receiving LLINs through ANC clinic	HMIS report/Malaria Unit	Monthly	National, district	317772	2008	689743	435557	444669	457120
	Number of LLINs distributed to the households	Distribution report/ /Malaria Unit ? District Hospitals	Quarterly	National, district	NA	2008	1 957 095	101 378	104 216	126 137
Indoor residual spraying	Number of structures sprayed by IRS in last 12 months	IRS campaign reports/Malaria Unit and IRS partners	Every year	National, District	189000	2008	275000	275000	286000	286000
	Number of HWs trained on IRS	Malaria Unit /partners report	When conducted	National	1885	2008	2222	3115	3115	3240
Epidemic preparedness	Proportion of epidemics that are detected within one week after passing the threshold	Malaria Unit activity report	As and when they occur	Targeted area	85%	2008	89%	93%	96%	100%
	Proportion of epidemics that were controlled within two weeks after their onset	Malaria Unit activity report	As and when they occur	Targeted area	75%		79%	83%	86%	90%
	Proportion of epidemics that are detected and controlled within two weeks after passing the threshold	Malaria Unit activity report	As and when they occur	Targeted area	80%		82.5%	85%	87.5%	90%
	Indicators	Source of data	Frequency	Level of						
-----------------------	---	--	-----------	------------------------	--------------	------	------------------	------------------	-----------------	------------------
Service Delivery Area				measurement	Baseline	Year	2009	2010	2011	2012
	Proportion of district epidemic management	Malaria Unit activity report	Quarterly	District						
	committee meeting at least once in a quarter				0	2008	85%	90%	95%	100%
ancy	Number of people trained on integration of maternal and newborn services	Malaria Unit activity report	Quarterly	National, district						
regi	xy · · · · · · · · · · · ·				0	2007	120	120	120	120
ia i	New revised national guidelines on malaria in pregnancy available	Malaria Unit	Annually	National	1 (2006)	2006	1	1	1	1
Malari	Number of pregnant women on Intermittent Preventive Treatment according to the national policy	Malaria Unit	Quarterly	National, District	555 500	2007	275216	304047	NA	NA
	CASE MANAGEMENT									
	Number of laboratory technicians trained on Malaria diagnosis	Activity report	Quarterly	National District	408	2007	900	900	900	900
	Number and percentage of health Facilities with microscopy capability	Activity report	Quarterly	National , District	390 (82%)	2008	452 (95%)	452 (95%)	475 (100%)	475 (100%)
sis	Number of RDTs done and read at Community level	Activity report	Monthly	District	NA	2008	182324	255254	312688	312688
Diagno	Number of CHWs trained /retrained on integrated HBM and using RDT	Activity report	Quarterly	National, District	305	2008	9000	18000	27000	36000
	Number and Percentage of Under five children with fever tested with rapid diagnostic tests at the community level	Activity reports	Quarterly	National	305	2008	182 324 (20%)	255 254 (40%)	312686 (70%)	312686 (100%)
	Proportion of health facilities underwent quality control for malaria diagnosis during the last 3months	Activity reports	Quarterly	District	42%	2008	55%	75%	90%	100%
	Number of doses of ACTs delivered	Bills of loading, Delivery notes, stock reports/CAMERWA and district pharmacies	Monthly	National , District	869580	2008	976735	1004083	1032197	1061098
reatmen	Number of doses of Artemether delivered	Bills of loading, Delivery notes, stock reports/CAMERWA and district pharmacies	Monthly	National , District	110856	2008	113960	117151	120431	123803
E	Number of doses of Quinine tablets delivered	Bills of loading, Delivery notes, stock reports/CAMERWA and district pharmacies	Monthly	National , District	1700133	2008	1747737	1796674	1846981	1898696

	Indicators	Source of data	Frequency	Level of						
Service Delivery Area				measurement	Baseline	Year	2009	2010	2011	2012
	Number of ACTs repackaged for private sector	Delivery notes, stock reports/CAMERWA/PSI	Quarterly	National, District	150000		187793	131455	92019	64413
	Number of ACTs repackaged for Public sector	Delivery notes, stock reports/CAMERWA/PSI	Quarterly	National, District	630000		751176	525824	368076	257654
	Number of doses of Quinine Ampoules delivered	Bills of loading, Delivery notes, stock reports/CAMERWA and district pharmacies	Monthly	National , District	1530011	2008	1572852	1616892	1 662 165	1708705
	Number and percentage of health facilities reporting no stock out of ACTs nationally recommanded antimalarial drugs lasting more than one week at any time during the past three months	HMIS monthly and quarterly reports	Quarterly	National, District	03%	2007	08 5%	00.5%	100%	100%
	Number of health care providers trained on management of malaria cases management	Activity report, HMIS	Quarterly	National, District	2165 (2007)	2007	180	180	180	180
	Number of uncomplicated malaria cases treated using ACTs	HMIS report/Malaria Unit	monthly	National, District	916860 (2007)		660139	462097	323468	226428
	Number of severe malaria cases among children under five treated	HMIS report/Malaria Unit	Monthly	National, District	9495	2007	3116	2804	2524	2244
	Number of fever cases in children under 5 treated under HBM with ACTs	Activity report	Quarterly	HBM districts	267644	2008	911621	638135	446694	312686
	Number of district implementing HBM	Malaria Unit report	Quarterly	National , District	11	2008	18	24	28	30
rship	Health System Strengthening and Supportive Envir	onnements				2000	10	21	20	50
l partne sment	Number of partners involved in the country Roll Back Malaria partnership	Malaria Unit	Annually	Malaria Unit	6	2006	6	6	6	6
nation and developpe	Number of community based groups involved in malaria control in the country (ONGs,PFTH associations members)	Malaria Unit	Annually	Malaria Unit	7	2008	60	60	60	60
Coordi	Number of meetings of the coordination held	Malaria Unit reports	Quarterly	National	2	2008	2	2	2	2

	Indicators	Source of data	Frequency	Level of						
Service Delivery Area				measurement	Baseline	Year	2009	2010	2011	2012
	Number of semi annual workshops for feed back and dissemination report on HBM community level organized at the health district	Malaria Unit reports	2 a year	2008	2	2008	2	2	2	2
	Number of follow-up visits conducted to HH by CHW	District activity reports	Quarterly	2008	NA	2008	7 828 380	6035682	4136454	8504548
ion and	Number of people reached through malaria-related IPC	Participants lists, Quarterly reports, HMIS	Annually	National, District	NA	2008	1920	1920	1920	1920
nunicat	Number sketches on LLIN use aired	PSI activity report	Quarterly	National	NA	2008	324	324	324	324
c comn	Number of MVU on malaria control activities	PSI activity report	Quarterly	National	NA	2008	832	NA	NA	832
ation ar BC	Number of Interpersonal communications (IPC) done related to malaria	IPC materials, Quarterly reports, HMIS	Annually	National, District	NA	2008	48	48	48	48
n educ	Number of health seeking behaviour surveys carried out	Survey and quarterly activity report	Annually	National	1	2008	0	1	0	1
formatio	Number of studies of drug efficacy completed according to WHO protocol	Study and quarterly activity report	Annually	National, District						
Ini					1	2008	1	1	1	1
	Proportion of expired ACTs at CAMERWA	Stock management forms, Quarterly activity report	Quarterly	National	5%	2008	1%	0,5%	0,3%	0%
mitoring	Number of malaria related indicator surveys carried out (including prevalence)	Survey and quarterly activity report	Annually	National	2	2008	0	2	3	2
acy mc	Number of malaria drug samples(batches) taken for quality test	Activity reports	Quarterly	District	0	2008	320	360	400	480
rug effic	Number of people trained in monitoring ADRs and pharmacovigilance	Training workshop reports, Quarterly activity report/	Quarterly	National, District	0	2008	70	70	70	70
Ā	Number of studies of insecticide efficacy completed according to WHO protocol	Malaria Unit activity report	2 a year	District	0	2008	1	2	2	2

Samiaa Daliyany Araa	Indicators	Source of data	Frequency	Level of measurement	Pagalina	Voor	2000	2010	2011	2012
Service Delivery Alea	Number of sentinel sites established for monitoring insecticide resistance	Malaria Unit activity report	Annualy	National	Dasenne	rear	2009	2010	2011	2012
Insecticide efficacy monitoring					0	2008	1	1	1	1
	Contribution to the developmen	nt of the health system								
	Number of people participating in international conferences, seminars and workshops	Conference/seminar/workshop report	Quarterly	National	10	2008	26	26	26	26
⁵⁰	Number and proportion of sentinel sites submitting timely monthly reports	Quarterly activity reports	Quarterly	National	14 (74%)	2008	14 (75%)	15 (800%)	16 (85%)	17 (90%)
Other	Number of staff trained in public health masters	Malaria Unit reports	Annualy	National	1	2008	2	2	2	2
	Number of health worker trained on drug supply management	Activity reports	Quarterly	National	435	2008	125	70	70	70
-	Proportion of health facilities supervised per quarter	Activity report	Quarterly	National, District	425	2008	425	500	500	550
	Number of CHWs(HBM) supervised by health center by month	Activity report	Quarterly	Health center	9132	2008	9000	18000	27000	36000

ANNEX 1: Monitoring and Evaluation Plan Budget (USD)

Objectives/Key activities	Source of budget	Responsibl e	Unit Qty	Unit cost	Year 2010	Year 2011	Year 2012
To set the framework for development of Standard Operating Procedures for the data collection, processing, analysis and use of malaria data					1 194 352	209	760 850
Production and disseminations of documents							
Hire a consultant to develop SOPs for the health M&E system at all levels(HMIS, data quality, completeness, obvious mistakes, archives	HMIS	HMIS/Mala ria/PTF	1	0	18 140	0	0
Multiplication and dissemination of SOP on data management and Monitoring tools	PMI	HMIS/Mala ria/PTF	1088	16	17 408	0	0
Finalisation of the Malaria BCC strategy	PSI	Malaria Unit	1	0	0	0	0
Elaboration of the BCC training module	GF Mal/R8	Malaria Unit	1	20 000	20 000	0	0
Develop and disseminate BCC data collection forms	Malaria Unit/HMIS			12 300	12 300	0	0
Elaborate, print and distribute standardized forms (test requisition form; result report form) and registers	NRL	NRL/Malari a Unit	1	6 091	6 091	0	0
Produce and distribute harmonized and standardized data collection tools	M&E Unit/Malaria Unit	M&E Unit/Malari a Unit	2	760 641	760 641	0	760 641
Harmonise the reporting systems (HBM, drugs management, HMIS, quarterly GF reports)	TO BE MOBILIZED	Malaria Unit/HMIS. CH desk	1600000	75	210 526	0	0
Develop and multiplication of sheet log for IEC materials and promotional materials	R8/PNILP 1.2.2.6	Malaria Unit	5	2 916	2 916	0	0

Objectives/Key activities	Source of budget	Responsibl e	Unit Qty	Unit cost	Year 2010	Year 2011	Year 2012
Production of technical documents/malaria case management pocket guide	TO BE MOBILIZED	Malaria /M&E	1	7 300	7 300	0	0
Develop manual for data management procedures, including data collection, storage, data quality assurance, verification and feedback	PMI	HMIS/ Malaria Unit	1	45 800	0	0	0
Develop and reproduce integrated DQA tools	M&E Unit/Malaria Unit	M&E/Malar ia Unit	3	209	209	209	209
Strengthening the filing of all documents and tools used for program and patients monitoring (from community level to health centers)	To be mobilized	Malaria Unit		125 921	125 921	0	0
Develop/update and produce guidelines and tools(forms, registers)	TO BE MOBILIZED	Malaria Unit/M&E	1	12 900	12 900	0	0
To guide the monitoring of planned activities and measure expected outcomes and impact					4 329 836	3 209 416	3 195 453
Monitoring of activities and data							
Develop a methodology to follow up sub reporting entities and data quality issues	Malaria Unit	Malaria Unit	1	702	702	0	0
Supervision and maintenance of weather station equipment					53 900	0	0
Investigation and detection of epidemics	TO BE MOBILIZED	Meteorolog y dept	1	9 000	9 000	0	0
Develop epidemic threshold in all health centres	TO BE MOBILIZED	Malaria Unit	1	6 000	6 000	0	0
To contract when needed local or international expertise	TO BE MOBILIZED	Malaria Unit	1	20 000	20 000	0	0
Review of the malaria strategic plan by the year 2010	GF/RCC	Malaria Unit	1	5 000	5 000	5 000	0
Developpement of a malaria strategic plan for 2010-2013	GF/R5	Malaria Unit	1	20 000	20 000	20 000	0
Monitoring of drug distribution and storage	GF/RCC	Malaria Unit	3	24 750	24 750	24 750	24 750

Objectives/Key activities	Source of budget	Responsibl e	Unit Qty	Unit cost	Year 2010	Year 2011	Year 2012
Monitoring of ACTs stock at community level (integrated in regular supervision activity)	GF/RCC	Districts	3	5 000	5 000	5 000	5 000
Organise HBM data collection /analyses	TO BE MOBILIZED	Malaria Unit	1	30 000	30 000	0	0
Organise technical audit at DH level	TO BE MOBILIZED	Malaria Unit	1	20 000	20 000	0	0
Population surveys (sentinel sites)							
Organise entomological survey and other entomological activities and make sure all indicators have baseline values	Activity planned in RCC/R3, 7,3,9	Malaria Unit	3	40 000	120 000	0	0
Conduct MIS survey	GF/RCC	OR	2	75 000	150 000	0	150 000
Conduct malariometric survey in 10 sentinels sites	GF/RCC	OR	3	52 000	156 000	100 000	100 000
Health facility survey (qualitative+quantitaive)	GF/R5,GOR	M&E	2	38 292	38 292	0	38 292
Review of malaria incidence and case fatality (Impact assessment)	GF/RCC	M&E	2	20 000	40 000	20 000	0
Review of the malaria strategic plan by the year 2010	GF/RCC	Unit Coord.	1	5 000	5 000	0	0
Developpement of a malaria strategic plan for 2010-2013	TO BE MOBILIZED	Unit Coord.	1	20 000	20 000	0	20 000
KAP survey on the usage of Nets	GF/RCC/PSI	VC resp.	2	15 000	30 000	0	10 000
Conduct Vector susceptibility tests	GF/RCC, GF/R8	VC resp.	1	30 000	30 000	60 000	60 000
Collect samples from pharmacy stocks for QC (once per quarter)	GF/RCC	M&E	3		15 800	15 800	15 800
KAP survey on the knowledge of the people concerning malaria disease	GF/RCC/PSI	IEC	2	15 000	20 000	0	10 000
Annual rapid BCC assessment	GF/R8	IEC	2	27 273	27 273	27 273	0
Produce tools on pharmacoviglance	GF/RCC	Malaria Unit	3	3 600	3 600	3 600	3 600
Multidisciplinary investigations field visits and data collection Investigation on ACTs side-effects	TO BE MOBILIZED	Malaria Unit	3		26 630	2 880	2 880

Objectives/Key activities	Source of budget	Responsibl e	Unit Qty	Unit cost	Year 2010	Year 2011	Year 2012
Establishing a RBM database	GF/RCC	Malaria Unit	1	20 000	20 000	0	0
To produce supervision tools/review of data collection tools (in R5)	GF/RCC	Malaria Unit	3		16 600	3 800	3 800
Put in place a system of management of ACTs	GF/RCC	camerwa	3		64 100	9 100	9 100
Monitoring of drug distribution and storage	GF/RCC	M&E	3	24 750	24 750	24 750	24 750
Monitoring of ACTs stock at community level (integrated in regular supervision activity)	GF/RCC	districts	3	5 000	5 000	5 000	5 000
Financial External audit for thes malaria projects	GF/RCC		3	0	35 000	15 000	15 000
Conduct regular integrated supervision to the District Hospitals	GF/RCC	Malaria Unit	3	0	73 000	64 000	64 000
Conduct regular integrated supervisin to the Health Centers	GF/RCC	districts hospital	3	0	549 200	499 200	499 200
Supervision at the community level (HBM)	GF/RCC	districts hospital	3	0	327 440	192 000	192 000
To ensure regular supervision of community interventions by the Health Center(epidemic control committees, HBM, income generating projects)	GF/RCC	districts hospital	3	166 400	166 400	166 400	166 400
Organise LLINs data collection at community level	TO BE MOBILIZED	Malaria Unit	5	25 000	0	0	0
Conduct external Data Quality Audits (once a year	TO BE MOBILIZED	Malaria Unit	1	70 681	70 681	70 681	70 681
Organise HBM data collection analysis	TO BE MOBILIZED	Malaria Unit	1	30 000	30 000	0	0
Organise Quarterly review meeting with Disitrict management team		Malaria Unit				0	0
Develop methodology to follow up Sub reporting Entities and data quality issues	Malaria Unit	Malaria Unit	1	702	702	702	702
To organize a workshop for feedback and dissemination report on HBM community level	GF/RCC	Malaria Unit			15 200	15 200	15 200

Objectives/Key activities	Source of budget	Responsibl e	Unit Qty	Unit cost	Year 2010	Year 2011	Year 2012
Organise technical audit at DH level	TO BE MOBILIZED	Malaria Unit		20 000	20 000	0	0
ITN Data quality auditing at Health facilities	GF/R8	Malaria Unit		0	33 818	33 818	33 818
ITN Data quality auditing at Health facilities	GF/R8			0	21 491	21 491	21 491
Conduct (ITN) feedback meetings at district level	GF/R8	VC resp.		0	27 355	27 355	27 355
Hiring data entry clerks at district hospitals	GF/R8	districts		0	43 636	43 636	43 636
Printing of LLINs use and needs reports for all decentralised level (District, Sector, Cells)	GF/R8	Malaria Unit		0	27 273	27 273	27 273
Quarterly supportive supervision by NGO to strengthen the behavior change interventions done by CHW	GF/R8	IEC		0	409 091	409 091	409 091
Annual review meetings (on LLINs) with all stakeholders	GF/R8	VC resp.		0	45 404	45 404	45 404
Evaluation of the LLINs community mass distribution campaign	GF/R8			0	15 000	0	0
CHWs coordination meetings (on LLINs) twice a year at HC level		districts		0	490 909	490 909	490 909
Quarterly household visits by CHW (on LLINs)	GF/R8	districts	12	0.1	701 368	540 832	370 850
Conduct quarterly sensitization Meetings for opinion leaders at cell level (on LLINs)	GF/R8	IEC	120000	4.5	179 221	179 221	179 221
Design an multiply tools for supervision of CHWs by health centres	GF/RCC	Malaria Unit			70 000	70 000	70 000
Production and dissseminations of the list of indicators					51 000	120 000	0
Recruit a consultant for exploitation/assessment of Malaria Unit data base	GF/RCC	Unit Coord.			20 000	0	0
Technical assistance for data analysis, publication and dissemination	TO BE	Unit Coord.			31 000	0	0

Objectives/Key activities	Source of budget	Responsibl e	Unit Qty	Unit cost	Year 2010	Year 2011	Year 2012
	MOBILIZED						
Bioassay testing	GF/R8	VC resp.				120 000	0
To outline key actions for implementing malaria M&E plan					3 300	0	0
Organise M&E plan dissemination workshop for stakeholders	TO BE MOBILIZED	Unit Coord.			1 650	0	0
Organise M&E plan annual review meeting with stakeholders	TO BE MOBILIZED	Malaria Unit			1 650	0	0
Recruitment of staff for M&E malaria related activities:					297 968	270 168	385 168
Data entry (casual staff)	TO BE MOBILISED	Malaria Unit			20 000	0	0
District supervisors based at Malaria Unit	TO BE MOBILIZED	Malaria Unit			20 000	20 000	20 000
National GIS staff	TO BE MOBILIZED	Malaria Unit			7 800	0	0
M&E officer based at Malaria Unit	GF /RCC/R8	Malaria Unit			156 000	156 000	156 000
Sentinel sites staff	TO BE MOBILIZED	Malaria Unit			25 000	25 000	25 000
BCC specialist based at Malaria Unit	GF/Malaria R8	Malaria Unit			23 340	23 340	23 340
Hire 41 lab technicians to strenghen supervision for lab QC from DH to HC	NRL	NRL	41	373	45 828	45 828	45 828
Recruit and pay research team to monitor efficacity of antimalaria	GF/RCC	Malaria Unit			0	0	115 000
Trainings, workshop and meetings					802 962	332 738	332 738
Training of epidemic management commitee members	GF/RCC	Surveillanc e			37 780	37 780	37 780
Train of PNILP satff on utilisation of Arc view ,ArcGIS etc	TO BE MOBILIZED	CGIS/NUR			24 000	0	0

Objectives/Key activities	Source of budget	Responsibl e	Unit Qty	Unit cost	Year 2010	Year 2011	Year 2012
Train PNILP staff and HMIS on data mgt	PMI	Malaria Unit			1 835	0	0
Train PNILP and HMIS on M&E	PMI	M&E			1 835	0	0
Train data mgt staff at all level on data management	PMI/GF/M&E Unit	M&E / Malaria Unit			95 614	0	0
Training of health personnel on drug forecasting, procurement and supply management	GF/RCC	camerwa			9 100	9 100	9 100
Training of HWs on Pharmacovigilance	TO BE MOBILIZED	M&E			9 100	9 100	9 100
Conduct training and annual epidemiological country settings review workshops	GF/RCC	M&E			30 000	30 000	30 000
Train subrecipient staff on National Malaria Strategic Plan	GF/RCC	Unit Coord.			2 000	0	0
Train of health workers on M&E at all levels	TO BE MOBILIZED	M&E			40 000	0	0
Refresher training for public and private sector laboratory technicians on malaria diagnosis	GF/RCC	NRL			273 600	136 800	136 800
Train health workers and NGOs staff involved in malaria programs in BCC	Malaria Unit	Malaria Unit			135 000	0	0
Organize a workshop for clinics and referal hospitals on the importance to report to the HMIS	HMIS/Malaria Unit	Health sector M&E strategy2.3. 2a/2.3.2b			38.540	0	0
Organize twice a year dissemination meetings at national level to share malaria data reports	Malaria Unit	Malaria Unit	5	4 979	4 979	9 958	9 958

Objectives/Key activities	Source of budget	Responsibl e	Unit Qty	Unit cost	Year 2010	Year 2011	Year 2012
Organize a workshop to update and finalise National Malaria M&E plan	Malaria Unit	Malaria Unit	1		4 979	0	0
Training on epidemic surveillance and response	TO BE MOBILIZED	Malaria Unit			15 000	0	0
Organize a workshop to share results from the M& E assessment (to share the information on all challenges identified)	Malaria Unit/M&E Unit	Gvt budget			18 140	0	0
Training of community health workers and other cadres of health care providers (50 health mobilisers at each health center)	GF/RCC	district hospitals			100 000	100 000	100 000
Strengthening sentinel sites surveillance					194 000	25 000	25 000
Install community HMIS /MEWS in 19 sentinel sites (data collection and transfer tools)		Surveillanc e			97 000	0	0
Verification of SIS and sentinel sites' data/ support functioning	TO BE MOBILIZED	Malaria Unit			72 000	0	0
Running costs	TO BE MOBILIZED	Malaria Unit			25 000	25 000	25 000
MEWS set up					44 000	0	0
Produce 10 MEWS maps for 10 districts	GF/RCC	Malaria Unit			20 000	0	0
Equipment (PDAs, GPS)	GF/ RCC	Malaria Unit			24 000	0	0
GRAND TOTAL					6 917 418	3 957 531	4 699 209

ANNEX 4: HMIS report for healthcenters

Health Center or Dispensary Monthly Report

IDENTIFICATION

Year	Month	
Province	District	
Catchment Area	Sector	
Facility Name	Cell	

REMARQUES IMPORTANTES POUVANT ENTRAVER LE BON FONCTIONNEMENT DE LA FOSA

Epidemiology
Medicines/supplies
Vaccines - cold chain
Equipment
Infrastructure
Transport
Personnel
Other

Name of In-charge	Date sent	
Qualification	Signature	
Date of reception	Date entered	
Signature		

POPULATION

Population Total of the catchment area	Target population of the e HMO	HMO Population (subscribers + indigents)	< 30 days	1-11 months	12-59 months	5-14 yrs	15-24 yrs	25-49 yrs	50 yrs et +	Pregnant women	Women of reproductive age
			<mark>?%</mark>	<mark>?%</mark>							

Outpatient Consultations

Morbidity (Major ca	(New cases) uses of Morbidity	v)	< 30) days	1-11 r	nonths	12 moi	-59 nths	5-14	yrs	15-2	4 yrs	25-4	9 yrs	50	yrs +	Т	otal
(major ca		,,	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
1. Malaria	a (presumptive)																	
	Of which	Pregnant women																
2. Malaria	a confirmed																	
	Of which	Pregnant women																
3. Malaria	a (presumptive) with	n minor digestive symptoms																
	Of which	Pregnant women																
4. Malaria confirmed with minor digestive symptoms																		
	Of which	Pregnant women																
ARI																		
	5. Flu sympto	ms																
Of which	6. Angina																	
	7. Otitis																	
	8. Mumps																	
9. Pneumo	Pneumonia																	
10. Whoop	ing cough																	

11. Other	acute respiratory infections								
12. Infect	ons of teeth and gums								
13. Conjun	tivitis (bacterial or allergic)								
14. Ocular	trauma								
15. Catara	;†								
16. Other	ocular problems								
17. Vitamir	A deficiency								
18. Diarrhe	ea without bleeding (acute)								
19. Diarrhe	a with bleeding								
20. Intesti	nal parasites								
21. Gastrit	is / Epigastric pain								
22. Skin in	fections								
23. Absces	S								
24. Infect	ed wound								
25. Physica	l trauma								
26. Joint p	ain								
Protein-calo	rie Malnutrition								
	27. Kwashiorkor								
Of which	28. Marasmus								
	29. Marasmus-Kwashiorkor								
30. Neonat	al tetanus < 28 days								
31. Tetanu	5								
32. Acute	lassic paralysis								
33. Congen	ital Malformations								
34. Diabet	25								

35. Arterial Hypertension								
36. Urinary Infections								
37. Tuberculosis BK+								
38. Leprosy								
39. Urethral discharge								
40. Vaginal discharge								
41. Genital Ulceration								
42. Conjunctivitis of newborn								

	< 30	0 days	1-11 1	nonths	12 mo	-59 nths	5-14	l yrs	15-24	1 yrs	25-4	9 yrs	50	yrs +	Total	
	Μ	F	Μ	F	м	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
43. Swelling of scrotum ???																
44. Bubon inguinal ????]		<u> </u>									
45. Genital herpes female																
46. Genital herpes male ????????																
47. Syphilis confirmed																
48. Other STI																
49. Chronic diarrhea																
50. Prolonged fever > 1 month																
51. Candidose bucco pharyngée ???																
52. Chronic cough																
53. Headaches resistant to analgesics																
54. Zona ???																
55. Generalized skin infections																
56. AIDS																
Gyneco-obstetrical problems																
Of which 57. Métrorragie ????																
58. Pregnancy related issues																
59. Miscarriage																
60. Risk of premature birth																
61. post partum infections																
62. other gyneco-obstetric problems																

63. Epilepsy																
64. Post Traumatic Stress																
65. Psychiatric problems																
66. Neurological problems																
67. Psychosomatic problems																
68. Other Psychological																
	< 30 da	ys	1-11 mo	nths	12-59m	onths	5-14 ye	ars	15-24	years	25-49 ye	ars	50 yea	urs +	Total	
	Μ	F	Μ	F	м	F	м	F	м	F	м	F	м	F	Μ	F
69. Trypanosomiasis																
70. Rabies																
71. Meningitis																
72. Measles																
Of which 73. Non-vaccinated cases																
74. Yellow fever																
75. Viral Hemorrhagic Fever																
76. Typhus																
77. Plague																
Other morbidity not mentioned above																
78. 1.																
79. 2																
80. 3.																
Total																

Morbidity summary table

Zone

Consultations

Outside of Outside of

Total HMO

			Zone		Distria	:†						
	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F		
New cases											NC non-paying	
Old cases											Of which	
Total cases											Number of Indigents	

Referred to the HD Counter-referrals

Old cases HMO members	Frequen	icy of consul	tations	Number of HMO members referred to the HD
	2	3	4 or more	

Number Deaths Number Deaths

M F

M F

M F

M F

M F

HOSPITALIZATIONS

Number of	beds (a)												
Present at	the beginning of the mont	h (1)		Zone	Outside of Z	lone	Outside of Distric	t					
Admissions	s during the month (2)		Of which	f which									
Discharges	s during the month (b)			Admissions who are members of HMO									
	Cured			Potential Number of hospitalization days : a X days in the current month									
Of which	Died			Total hospitalization days (d) : Hospitalization Effective									
	Fled			Number of hospit	al days of discha	rged patients (e)							
	Referred to the district			Bed occupancy ra	te : (d x 100)/ (c)								
	hospital												
Present at	the end of the month (1+2	:-b)		Average duration of hospitalization : e / b									
h				- T	1	1		1	i				
Principal co	auses of hospitalization	< 30 days	1-11 months	12-59 months	5-14 yrs	15-24 yrs	25-49 yrs	50 yrs +	Total				
at discha	rge												

Number Deaths Number Deaths

M F

M F

M F

M F

M F

M F

Number Deaths Number Deaths Number Deaths Number Deaths

M F

ΜF

M F

M F

M F

Malaria with minor digestive symptoms																		
Pneumonia																		
Other ARI																		
Measles																		
Diarrhea with bleeding																		
Diarrhea without bleeding																		
Cholera (suspected)																		
Meningitis (suspected)																		
Neonatal Tetanus (< 28 days) ????																		
Tetanus (suspected)																		
Mental problems																		
Physical traumas																		
Osteo-articulary problems																		
Post-partum complications																		
Post partum observation ??																		
Gyneco – obstetric Problems (other than																		
STI)]		
Pulmonary Tuberculosis BK+																		
AIDS disease																		
Protein-calorie malnutrition																		
Other causes of hospitalization not noted																		
above														 		 	-	
1.																 	 	
2.																 		
lotal																		

HIV/AIDS MONITORING AND CASE MANAGEMENT

HIV testing

CATEGORIES	< 5 AN	15	5-14 A	NS	15-24	ANS	25-34	ANS	35-49 A	NS	50 AN	IS et +	Total	
	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
Number of clients received individually														
Number of clients counseled														
Number of clients tested														
Number of couples tested														
Number of clients returned to receive results														

Number of clients tested HIV+							
Number of clients HIV + who received their results							
Number of clients HIV negative who received their results							
Number of partners tested							
Number of sero-discordant couples							
Number of clients tested HIV+ followed-up							

Follow-up care

Follow-up care	e of HIV+	NC		00		Total	
		Μ	F	Μ	F	Μ	F
Children (< 15 ye	ears)						
Adolescents (15	i-24 years)						
Adults							
Of which	25-34 years						
Of which	35-49 years						
Of which	>=50 years						
Total							

Treatment

Category of	Tre	eated	d wit	th A	RV		Tre	ated	for (JI			Tre	eatec	l for	STI			Ba	ctrii	n Pre	event	ion		Tre	eate	d foi	r TB		
patient	NC		AC	:	Tote	al	NC		AC		Tot	al	NC		AC		Toto	ıl	NC	•	AC		To	tal	NC		AC		To	tal
	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
Children																														
(< 14 years)																														
Adolescents																														
(15-24 years)																														

Adults																
Of which	25-34 years															
	35-49 years															1
	50 years +															
Total																

PRENATAL CONSULTATIONS

		Zone	Non- Zone	Non-District	Total	ANC attendance rate : a x 100 / (expected pregnancies/ 12)
New Reg	istrations	a	20110			
ANC visi	t 1 st trimester					
ANC visi	t 2 nd trimester					
ANC visi	t 7th or 8 th month					
ANC visi	t during 9 th month					Adequate ANC coverage rate: b x100 / (expected pregnancies/ 12)
Number	of women with 4 standard ANC visits	Ь				
Number	of women who made non-standard ANC visits					
Number	of high risk pregnancies detected					
Number	of high risk pregnancies referred.					
Number	of women who received TPI ???					
	TPI I					
Of	TPI II					
which	TPI III if indicated					
Total nu	nber of women who received TT					
Of	TT 1					
which	TT 2 (a)					
	ТТ 3 (b)					
	TT 4 (c)					
	TT 5 (d)					
TOTAL	TT2 to TT5 (a+b+c+d)		1			
Number	of women who received Iron and Folic Acid supplements					
Number	of women who received Insecticide Treated Bed nets					

PMTCT

Total number of women who received counseling	
Number of women counseled and tested for HIV	
Number of women counseled and tested for RPR ???	
Number of women tested who returned to receive their results	
Number of women counseled with their partners	
Total number of women tested for HIV	Of which HIV+
Number of partners tested	Of which HIV+
Total number of women tested for RPR ???	Of which RPR+ ???
Number of HIV+ women eligible for Tritherapy (ARV)	
Number of HIV+ women eligible for prophylaxis	

ACCOUCHEMENTS

	Total number (eut + dys)*	Number of Dystocic ???? deliveries	Number of HIV+ women delivered	Number of women referred to the District Hospital during labor	Number of maternal deaths at the maternity
Deliveries at the Health Facility					
Deliveries outside of the Health Facility reported by a CHW					

By geographic origin	Zone	Outside of	Outside of	Total*	* The total must be	e the same in all
		Zone	District		tables.	
Number of deliveries at the health center	а					
Coverage rate for assisted de	liveries					a x 100 / (Pop Expected Pregnancies /12)

Assisted deliveries by the Number of standard ANC Visits :	
Number of FOSA deliveries with only 2 standard ANC visits.	
Number of FOSA deliveries with only 3 standard ANC visits.	
Number of FOSA deliveries with 4 standard ANC visits	
Number of FOSA deliveries with > 2 non-standard ANC visits.	
TOTAL FOSA deliveries with at least 3 visits (standard et non-standards)	

Ву РМТСТ				Zone		Hors Z	one	Hors Distr	ict	Total
Number of HIV + women	expected to delive	r at the FOSA								
Number of HIV + women	who delivered at t	he FOSA								
Number of HIV + women	who delivered at h	ome								
HIV+ women who received	d AZT/NVP during	labor (received at	the 28th SA)							
Children who took ARV										
BIRTHS	Total Number	Weight < 2.5	Number refe	erred	Infant	deaths				
		kg			Numbe	er total	At b	irth	In uter	0
At the FOSA										
Reported by the CHWs										

MONITORING OF HIV+ CHILDREN AND MOTHERS

Children born of seropositive mothers.			
Children monitored who were born of seropositive mothers			
Children born of seropositive mothers tested at 6 months for PCR ???		Of which HIV+	
Children tested for PCR at $7^{1/2}$ months (PCR confirmation)		Of which HIV+	
Children born of seropositive mothers tested at 9 months		Of which HIV+	
Children born of seropositive mothers tested at 15 months		Of which HIV+	

CONSULTATION OF CHILDREN UNDER 5 YEARS

VACCINATIONS

	Zone	Zone				Outside of zone				Outside of district				Total						
	0 -11 mont	0 -11 ≥1 y months		≥1 year TOTAL		AL	0 -11 months		≥1 year		TOTAL		0 -11 months		≥1 y	rear	то	TAL	Μ	F
	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	۴		
BCG	а	a'																		
PO																				
P1-DTP-HepB/Hib1																				
P2-DTP-HepB/Hib2																				
P3-DTP-HepB/Hib3	b	b'																		
MEASLES	с	c'																		
Number of children who received insecticide impregnated bed nets																				

BCG coverage rate : (a+a')*100 / (Expected number of children <1 year /12)	
DTC-HepB/Hib3 coverage rate : (b+b')*100 / (Expected number of children <1 year /12)	
Measles coverage rate : (c+c')*100 / (Expected number of children <1 year /12)	
Dropout rate : [(a+a')-(c+c')]*100 / (a+a')	
Number of Adverse Post-Immunization Reactions (MAPI) ????	

GROWTH MONITORING

Par le	Children	Children	Children in	Children	Children in	Edema	Malnutrition	Children	Child	Number of	Number of children
<u>(</u> 5	expected	weighed	green zone	in yellow	red zone		rate	referred to the	deaths	children who	who received
63				zone				district hospital		received Vit. A	mebendazol
0-11 months											
12-23											
months											
24-35											
months											
36-59											
months											
Total											

Par la	Cells	Children	Children	Children	Children	Children in	Edema	Malnutrition	Children	Child	Number of	Number of	Number of
community	covered	expected	weighed	in green	in yellow	red zone		rate	referred	deaths	children who	children who	children who
				zone	zone				to the		received Vit.	received	received zinc
									district		A	mebendazol	
									hospital				
0-11 months													
12-23													
months													
24-35													
months													
36-59													
months													
Total													

Mild and moderate cases managed within the community	
Number of children referred back from the FOSA to the community	

HOSPITALISATION OF MALNOURISHED CHILDREN

Hospitalized	Present at	Admis	sions		Discharges					Present at the end of the month			
	the beginning	NC	C OC Total			Ref	Abandoned	Died	Total	Z	Non-Z	Non-D	Total
	of the month												
< 5 years													
\geq 5 years													
Total													

Average number of hospital days for children under 5 years

OUTPATIENT CARE OF MALNOURISHED CHILDREN

Outpatients	Present at the	Registe	red		Issue	Issue					Present at the end of the month			
	beginning of	NC	ОС	Total	Cured	Hospitalized	Abandoned	Deaths	Total	Z	Non-Z	Non-D	Total	
	the month													
< 5 years														
≥ 5 years														
Total														

Average number of days of outpatient care for children under 5 years

FAMILY PLANNING

	Zone	Outside Zone	Outside District	Total
Newly Registered				

By Method

		New U	sers			Active	Users at the en	d of the month		Quantity
Metho	ods	ZR	Non-Zone	Non-District	Total	ZR	Non-Zone	Non-District	Total	distributed
Oral Con	ntraceptives									
Injectables (Depo-Provera)										
Implants										
IUD										
Cycle be	eads									
Barriers	3									
Auto-ob	servation ????									
Surgica	contraception									
Of	Tubal ligations									
which	Vasectomy									
Total										

Methods By Age

	Age					
Methods	15-24 years	25-34 years	35 -44 years	45- 49 years	50 years +	Total
Oral Contraceptives						
Depo-Provera						
Implants						
IUD						
Cycle beads						
Barriers						
Auto-observation ???						
Surgical contraception						

LABORATORY

			Results		Total
	Exams		Positives	Negatives	
	Blood S	Smears			
	Of	Plasmodium			
	which	Borrelia			
	Stools				
	Of	Amoebiasis			
	which	Ascariasis			
		Ankylostomiasis			
		Bilharzia			
		Other parasites			
	Urine				
	Of	Sugar			
	which	Albumin			
		Pregnancy test			
	Sputum	1			
	Of	Diagnosis BK			
	which	Control BK			
	Blood				
	Of	Hemoglobin			
	which	RPR ???			
		SRV (VIH)			
		V5			
		NFS			
		Biochemistry			
		CD ₄			
		Glycemia			
	Others	3			
TO	TAL test	s conducted in the laboratory			

PHARMACY MANAGEMENT

			-	Consumption	I	Expiration/Loss		Number of	
Tracer drugs		Initial Stock	Quantity received	Quantity	Value	Quantity	Value	out	
Anti-biotics :									
Amoxicillin gel. or	tabs 250 mg								
Amoxicillin oral su	usp. 125 mg/ 5ml								
Benzathin benzylp	penicillin inj, 2,4 MUI								
Benzyl penicillin p	rocaine inj, 4 MUI								
Ciprofloxacin tab	s 250 mg								
Bactrim tabs 480	mg								
Anti-helminthe	es :								
Mebendazol tab 1	00mg								
Mebendazol oral s	susp. 100mg/5ml								
Metronidazol tab	250mg; 500mg								
Metronidazol oral	susp. 250mg/5ml vial								
Metronidazol oral	susp. 125mg/5ml vial								
Antimalarial									
Coartem tabs									
	5-15 Kg								
	15-25 Kg	_							
	25- 35 Kg								
	> 35 Kg								

				Consumption		Expiration/Loss		Number of days of stock
		Initial stock	Quantity received	Quantity	Value	Quantity	value	out
Arthemeter								
	Vial 80 mg / ml							
	Vial 20 mg / ml							
Quinine tab 300	mg							
Quinine inj. 300	mg							
Quinine syrup 10	00 mg/5 ml							
Anti-diarrhea	al							
ORS								
Zinc								
Antituberculo	sis							
1st Line Tree	atment							
RHZE (R150+H7	5+Z400+E275)							
RH (R150+H75)								
RHE (R150+H75	+E275)							
Streptomycin 1	gr							
Pediatric for	mulary:							
RHZ (R60+H30+	Z150)							
RH (R60 + H30)								
Ethambutol 400	mg							
Others:								
INH 100								
Pyridoxin 25 mg								
Pyridoxin 50 mg								
2nd Line Rx:								
Kanamycine 1 gr								
Pyrazinamide 40	10 mg							
Ofloxacine 200	mg							
Prothionamide 2	50 mg							

			Consumption		Expiration/loss		Number of
	Initial stock	Quantity received	Quantity	Value	Quantity	value	days of stock out
Cyclosérine 250 mg		. ,					
PAS tab 1gr							
PASER granules							
Clofazimine tab 100 mg							
Materiel for injections							
Syringes							
Diluents							
Reagents and Lab Consumables							
Kinyoun A							
Kinyoun B							
Fuchsine							
Sulfuric acid							
Methylene Blue							
Spittoons							
Slides							
Anti-leprosy							
Plaquettes MB adulte ???							
Plaquettes MB enfant ???							
Plaquettes PB adulte ???							
Plaquettes PB enfant ???							
Prednipac							
Solutions for perfusion of which							
Glucose 5% 500 ml							
Ringer's Lactate 500 ml							

Total value of stock on record	
Actual value of inventory	
Total value of expired items	

HEALTH EDUCATION

a. At the FOSA

Themes	Number of sessions	Number of participants	Number of household visits
Vaccination			
HIV/AIDS			
STD			
Malaria			
ARI			
Nutrition			
Childbirth			
Diarrheal disease			

Themes (cont.)	Number of	Number of	Number of
	Sessions	participants	visits
ANC/ IPT/Bed nets			
Postnatal care			
FP			
Hygiene/environmental health			
Tuberculosis			
PMTCT/ VCT			
Health Mutuals			
Total			

b. In the community

Themes	Number of sessions	Number of participants	Number of household visits
Vaccination			
HIV/AIDS			
STD			
Malaria			
ARI			
Nutrition			
Childbirth			
Diarrheal disease			

Themes (cont.)	Number of sessions	Number of participants	Number of household visits
ANC/ IPT/Bed nets			
Postnatal care			
FP			
Hygiene/environmental health			
Tuberculosis			
PMTCT/ VCT			
Health Mutuals			
Total			

COMMUNITY PARTICIPATION

Community health information

Number of home deliveries		
Number of maternal death due to pregnancy or delivery		
Number of deaths at home	Male	Female
Number of still born births	Male	Female
Number of infant deaths < 1 months	Male	Female
Number of infant deaths 1 months-11 months	Male	Female
	Mala	Female
Number child deaths >=12-59 months	Male	remaie
Number of neonates referred for tetracycline ophthalmic ointment		1
Number of household visits reported by the CHWs		
Number of households that are members of the health mutual		

Community based distribution

Number of bed nets sold	
Number of condoms sold	
Number of children 6-11 months who received Vit A	
Number of children 1- 4 years who received Vit A	
Number of children de >6 months who received mebendazol	
Number of children who received SRO for diarrhea	
--	--
Number of children under 5 years treated for fever (Malaria-HBM)	
Number of children under 5 years treated for fever (Malaria-HBM) and cured	
Number of oral contraceptives distributed	
Number of children who received Zinc	

HUMAN RESOURCE MANAGEMENT

		Status of	f personnel				
		No status	Contracted	Contracted by	Expatriate	Govt. Employees	Daily workers
			by FOSA	NGO/Project			
Doctors							
Qualified Paramedicals	Mid-wife						
	Nurse A1						
	Medical Assistant						
	Nurse A2						
	Nurse A3						
Nutritionists	Nutritionist A1						
	Nutritionist A2						
	Nutritionist A3						
Social Workers	Assistant Social A1						
	Assistant Social A2						
	Assistant Social A3						
	Others						
Medical technicians	Lab technician A1						
	Lab technician A2						
	Lab technician A3						
	Biologist A1						
	Environmental Health Technician A1						
	Environmental Health Technician A2						
Non diploma health workers	Nurse's Aide , Health Auxiliary						
Administrative Personnel	Accountant A1						
	Accountant A2						
	Cashier A2						
	Secretary A2						
Non-medical technical staff	Chauffeur, carpenter,						
Non-qualified worker	(laborer, guard)				T		

FINANCES

Receipts	Expenditures			
Description	Total Amount	Description	Total amount	
1. Curative Consultations		1. Purchase of medicines, medical materials		
2. Care		2. Salaries, social security, professional taxes, personnel		
		payments		
3. Laboratory		3. Employee bonuses		
4. Deliveries		4. Travel expenses		
5. Hospitalization		5. Office supplies / printed materials / medical records		
6. Sale of medicines/ supplies		6. Maintenance and repair of medical equipment		
7. Sale of bed nets		7. Maintenance and repair of non-medical equipment		
8. Minor surgery		8. Maintenance and repair of transport		
9. Doc. médico-légaux ?????		9. Maintenance and repair of infrastructure		
10 Sale of patient records/forms		10. Maintenance/cleaning supplies		
11. Transport of patients		11. Fuel and motor oil		
12. Performance Based Financing		12. Water and Electricity		
13. Other State Subsidies		13. Communication (Telephone, Internet)		
14. Contributions from other donors		14. Training		
15. Bank interest		15. Costs associated with indigents		
16. Mutuelles		16. Purchase medical equipment		
Co-payments		17. Purchase non-medical equipment		
Payment for care		18. Purchase transport		
Payment for medication		19. Other expenses		
17. Other health insurance (RAMA / MMI / FARG/ Private insurers)				
Co-payments				
Payment for care				
Payment for medication				
18. Other receipts				
Total Receipts (A)		Total Expenses (B)		

Credits		Debts			
Description	Amount	Description	Amount		
Credits at the beginning of the month (e)		Debts at the beginning of the			
		month (i)			
(+) Additional credits during the month (f)		(+) Total debts this month (j)			
(-) Reimbursements during the month (g)		(-) Reimbursements this month (k)			
Total credits at the end of the month (H) = (e+f)-(g)		Debt at the end of the month (L) = (i+ j) -(k)			

Total credits : all parties who owe the FOSA money, goods (e.g. medicines) or services (ex. consultations) provided.

Total debts : all parties who whom the FOSA owes money, goods (e.g. medicines) or services (ex. consultations) provided.

Financial Statement										
Description	Amount		Description	Amount						
General bank account (m)			Total available at the beginning of the month (r)							
(+) Pharmacy band account (n)			(+)balance of receipts and expenses (s) = (A-B)							
(+) general cash on hand (o)										
(+)pharmacy cash on hand (p)										
Total available at the end of month (Q) =		Q=T	Total available at the end of the month							
m+n+o+p			(T) = r + s							

Receipts in hand	Pending Rece	ending Receipts						
From the population (C)	Indigents (u)	Other non-paying clients* (v)	Credits for goods and services during the month** (w)	Total receipts not received (X) = u+v+w	(Y)= (C) + (X)			

* Other non-paying clients : patients other than indigents for whom was not paid for by the patient nor any other organization.	Ratio of pending receipts/receipts in hand
** All credits in goods (e.g. medicines) or services (ex. consultations) - financial credits are not counted.	(Z) =(X) X100/ (Y)

Value of outside donations and gifts in kind									
Sub-category	Quantity (units)	Amount by so	ource (frws)						
		Population	Donors	State	Total				
Pharmaceuticals/Consumables									
ARV									
Anti-TBC									
Vaccines									
Contraceptives									
Medical equipment									
Non medical equipment									
Computer equipment									
Office supplies									
Transport									
Food									
Salaries and other personnel									
costs									
Other types of interventions									
TOTAL									

ANNEX 5: HMIS for district hospitals

DISTRICT HOPITAL MONTHLY REPORT FORM

IDENTIFICATION

Year	Month	
Province	Sector	
District	Cell	
District Hospital Name		

IMPORTANT COMMENTS ABOUT ISSUES THAT AFFECT THE NORMAL FUNCTIONING OF THE DISTRICT HOSPITAL

Epidemiology	
Medicines/ Vaccines	
Infrastructure - Material, cold chain	
Transport	
Personnel	
Other	

Qualification Signature
Date of reception Date entered
Signature

POPULATION

Total	Target	Beneficiary	< 30 days	1-11	12-59	5-14	15-24	25 -49	50 years	Expected	Women of
Population of	Population of	Population		months	months	years	years	years	+	prégnancies	childbearing
the catchment	the mutuelle	(adherents +									age
area		indigents)									
			<mark>?%</mark>								

Source : 3rd Population and Household Census Year : Aug 2002 (with growth rate applied?)

CONSULTATIONS

Morbidity ((New cases)	< 30 da	iys	1-11 m	onths	12-59	months	5-14 y	rs	15-2	4 yrs	25-49	yrs	50 yrs	+	Total	
(Major cau	ses of Morbidity)																
	•	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
Simple Malaria																	
Of which	Pregnant women																
Malaria simple	with minor complications											_					
Of which	Pregnant women																
Malaria with m	ajor complications													_		-	_
Of which	Pregnant women															-	
Borréliose con	firmée???															-	
ARI						-		+									1
Angina						-		+						-			1
Asthma						-		1									
Pneumonia						-		1									
Other ARI						-		1									
Diarrhea wit	hout bleeding (acute)				-	-		1									
Of which	With dehydration					-		+									
Diarrhea wit	h bleeding					-		+									
	Bacterial Dysentery					-		+									1
Of which	Amoebic Dysentery				+	-		<u>†</u>			-	+			-+		+
	Shigellosis	+				-		†		**	1	+			-+		+
Other intest	inal parasites				+	-		†		-		+			-+		+
1		< 30 day	/S	1-11mo	nths	12-59 1	nonths	5-14 ye	ears	15-24	l years	25-49	/ears	50 year	s et +	Total	

	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
Bilharzia intestinal]		\Box					[[]		[[[]	[]	ļ]
Bilharza urinairy								l			<u> </u>		<u> </u>			ļ
Skin infections				<u> </u>		<u>]</u>	ا ا		<u> </u>		ĺ					<u>ا</u>
Fractures]										l		<u> </u>			
Other physical trauma	1							[<u> </u>		[
Dental cavities													[
Gingivitis								[<u> </u>		[1
Periodontal disease	1							[<u> </u>		[1
Congenital Malformations (hair lip)	1															
Other gum and dental problems	1							[<u> </u>		[1
Diabetes	1															
Arterial Hypertension																
Heart failure																
Other cardio-vascular diseases						[
Goiter																
Acute Abdomen																
Other abdominal surgery	1															
Hepatitis																
Cirrhosis of the liver																
Other liver disease																
Gastritis																
Gastric-duodenal ulcer																
Kwashiorkor																
Marasmus	1			[[[]	[-	
Kwashiorkor with marasmus	1			[[1	[]	[T	
Pulmonary Tuberculosis BK+	1			[[1
Pulmonary Tuberculosis BK-																
	< 30 da	iys	1-11mon	ths	12-59 mc	onths	5-14 yea	rs	15-24	years	25-49 ye	ears	50 years	et +	Total	
	- <u></u>	 F	M	F	M	F		F	M	F		F	M	F	M	F
Non-pulmonary Tuberculosis		r <u> </u>		ľ.		r <u></u>		[Ļ			<u>Г</u>	<u> </u> γ	Г <u></u> т	
Syndrome néphrotique???				+			<u> </u>						<u> </u>	<u> </u>	+	

Other urinary tract infections]										
Prostate disease																
Urethral discharge																
Vaginal discharge																
Genital ulcers		T		[1								Ι		
Syphilis confirmed				[]	Τ						I	Ι		
Pelvic/abdominal pain																
Swelling of the scrotum																
Bubon inguinal						<u> </u>										
Neonatal Conjunctivitis	<u> </u>															[
Female Genital herpes																
Male Genital herpes	<u> </u>		<u> </u>													
Chronic diarrhea				<u> </u>		<u> </u>	<u> </u>	[<u> </u>							[]
Prolonged fever > 1 month				<u> </u>			I	[<u>[</u>							
Candidose bucco pharyngée ???				<u> </u>		<u> </u>		[<u>[</u>							[]
Pneumonia due to pneumocystis carinii				<u> </u>			<u> </u>		<u> </u>							
Skin Pathologies related to HIV				<u> </u>		<u>[</u>		[<u>[</u>					[[]
Chronic Lymphadenopathies				<u> </u>			<u> </u>		<u> </u>							
Kaposi's sarcoma				<u> </u>		<u> </u>		[<u>[</u>					[[
Meningitis cryptococal				<u> </u>			<u> </u>		<u> </u>							<u> </u>
AIDS disease						<u> </u>										<u> </u>
Gyneco-obstetrical diseases																
Hemorrhage during pregnancy																
Risk of premature birth																l
	< 30 de	ays	1-11mon	ths	12-59 m	onths	5-14 yea	irs	15-24	years	25-49 y	ears	50 years	et +	Total	
	M	F	Μ	F	Μ	F	M	F	Μ	F	M	F	Μ	F	Μ	F
Miscarriage																
Sterility																
Epilepsy																
Post Traumatic Stress]										
Psychiatric problems																[

Neurological problems	1															
Psychosomatic problems													[]			
Other psychological problems				[
Sexual Violence				[[7	[7		
Cataract	1			[7	[7		
Trachoma																
Ectropion	1			[[
Entropion																
Vitamin A deficiency				[[
Conjunctivitis allergic	1															
Conjunctivitis bacterial		1					[
Ocular trauma	1															
Glaucoma																
Corneal ulcer								 	[
Other ocular disease		Γ														
Otitis									[L
Other ear disease																
Leprosy	1								[
Trypanosomiasis								 	[
Joint disease]			[[[[[[
Whooping cough]			[[[[
	< 30 da	iys	1-11mont	ths	12-59 mc	onths	5-14 yea	rs	15-24	years	25-49 y	ears	50 years	et +	Total	
	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F
Plague				_			ļ	 	 						[]	
Typhus				L			L		 							• ·
Rabies							<u> </u>		 						<u> </u>	
Yellow fever				<u> </u>			<u> </u>							!		
Viral Hemorrhagic fever]							[[
Neonatal Tetanus < 28 days																
Tetanus								[[[
Acute flassic Paralysis																

Measles	5		Т	Τ		Γ			 	
Of wh	ich Measles in non-vaccinated patients								 	
Bacteri	al Meningitis								 	
Other p	pathologies not listed above								 	
Total							 		 	
				 		· · · · · · · · · · · · · · · · · · ·	 		 	I
Medica	l-Legal Documents									
dont	Certificate physical aptitude						 		 	
	Birth certificate				1		 		 	
	Autopsy / death certificate			 	1				 	
	Medical rest and certificate of consolidation								 	

Morbidity Summary Table

Consultations	District		Outside of	Total	New cases mutualistes					
	Referred by HCs	Not referred	District		Fee for service curative consultations					
New cases					Fixed tarif's for new case consultations and medical services					
					Average cost of Medicines for new cases	-				
Old cases					Total non-paying new cases					
Total cases					Of which the number of indigents					

Referrals from primary care Health Centers

	Total number Mutualistes Other Without			Sur dem	ande???		Justifie	d		Late Ref	errals		Hospitali	ized	
	Mutualistes	Other	Without	Mutualistes	Other	Without	Mutualistes	Other	Without	Mutualistes	Other	Without	Mutualistes	Other	Without
		insurance	insurance		insurance	insurance		insurance	insurance		insurance	insurance		insurance	insurance
ANC															
Delivery															
Diagnosis															
Appropriate case															
management															
Specialized exams not															
available in the HC															
Medico-legal															
Documents (Medical															
Certificates,															
autopsies, etc)															

Other (specify)				
TOTAL referred by				
the HCs and				
received at the				
District Hospital				
Counter-	referrals by the District Hos	pital to the HCs		

MANAGEMENT OF CASES OF SEXUAL VIOLENCE

a. Cases of Rape

	Age	and se	x								
	Unde	er 5 ye	ars	5-18 y	ears		> 18 ye	ars		TO	ΓAL
	Μ	F	Total	Μ	F	Total	Μ	F	Total	Μ	F
Number of cases received by the hospital with suspicison of											
sexual violence											
Number of cases with symptoms of sexual violence.											

b. Symptoms of sexual violence

Age	Sex	HIV+	HIV-	Tears	STI+	STI-	Other types of lesions	Total	
<5 years	Μ								
	F								
5- 18 years	Μ								
	F								
> 18 years	Μ								
	F								LOCOTTALTZA
Total	Μ								TIOSFITALIZA
	F								TIONS

Méd. inter. Pédiatrie Chirurgie Gyn.Obst Réhab.nut. Soins intensifs	Services spécialisés	Total	
---	----------------------	-------	--

Number of beds (a)				
Present at the beginning of the month				
Admissions during the month of which:				
Patients from the cantchment area Referred from the CS				
Non-referred patients from the catchment area				
Admissions from outside the catchment area				
Discharges during the month (b) of which				
Number Authorized/Cured				
Number fled/Abandoned				
Number of deaths				
Number referred				
Number counter-referred				
Present at the end of the month				
Total hospitalization days for discharged patients (c)				
Average length of stay (c/b)				
Potential hospitalization days (a x days in the month = d)				
Actual hospitalization days (e)				
Bed occupancy rate: (e/dx100)				
Discharged members of Mutuelles				
Non-paying discharges				
Indigents				
Other non-paying discharges				

Ration of Referrals/Admissions

Principal causes of hospitalizaiton (at discharge)

		< 30 days		1-11	l mon	iths		12-	59 m	onthe	5	5-14	year	°5 '		15'	-24 y	vears		25	-49 y	ears		50	years	5 et +		Tot	al		
		м		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ	F
		Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC
Malaria	simple with TDM ³					1	1			1	†						1														1
Malaria	complex					1	1			1	1						1														
Of	Cerebral/neurologic					1				1	1						1														1
which	With Severe Anemia					1	1			1	1						1														1
	Other forms					Τ				Τ	T						Τ														
Borrélia	ose					1	1			1	1						1														1
Acute F	Respiratory Infection	_				1				1	1						1														1
Of	Bronchial Pneumonia					1				1	1						1														
which	Non Tubercular pleurisy									1	1																				
Asthma						1				1	1						1														1

³ TDM : Troubles Digestifs Mineurs

		< 30) day	ys		1-1	1mor	nths		12-	59 m	onth	S	5-14	l yea	rs '		15'	-24	/ears	;	25 ·	-49 y	ears	5	50	year	s et	+	Tot	al		
		Μ		F		Μ		F		Μ		F		Μ		F		Μ		Μ		F	, 	Μ		F		Μ		F	••••••	Μ	
		Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC
Acute [Diarrhea without bleeding	-	 			<u> </u>									ļ		_				 									_	_		
Of	which were Dehydrated																													<u> </u>			
Diarrhe	a with bleeding																																
Of w	hich Amoebic dysentery																																
	Bacillary Dysentery																																
	Shigellosis								1																	1							
Cholero	l								1																	1							
Salmon	ella (typhoid fever)					1			1						1											1							
Mening	itis																									1							
Measle	5								1																	1							
Diphthe	eria					Ι			Τ																	1							
Tuberc	ulosis pulmonary BK+					Ι			Τ						T											1				[
Tuberc	ulosis pulmonary BK-					Ι			Τ																	1							
Tuberc	ulosis extra pulmonary								1																	1							
SIDA c	onfirmed					Ι			Τ																	1							
Infecti	ons opportunists					Ι			Τ																	1							
Of whic	ch chronic Diarrhea																																
F	ever prolonged					Ι			Τ						T											1				[
Pi	neumopathies ???																									1							
E	ncephalitis								1																	1							
N ???	eningitis à cryptocoques																									1							
Af	fections dermatological								1																	1							
Trauma	tisms								1																	1							
Of which	Cranial Traumatisms																																
	Rupture of the spleen		Γ			Τ				1					Ī						Ι				1	l	1						1

		< 30) day	/5		1-11	mon	ths		12-	59 m	onth	5	5-14	yea	rs '		15'	-24	vears	3	25 ·	49 y	vears		50	year	s et ·	÷	Tot	al		
		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F	
		Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC
Other int	ternal trauma									<u> </u>							<u> </u>									<u> </u>					ļ'		
Compound	d fractures																			<u> </u>													l
Internal	Fractures																																1
Burns																															[]		
Post-oper	rative Complications		1						Ι								Ι			Ι				[[
Post-oper	rative Infections		1																														
Malignan	t tumors																														[
	Uterine																																1
Of	Breast																																
which	Kaposi		1																														
	Liver		1																							1							
	Prostate																										1						
	Other malignant tumors																																
Protein-C	alorie Malnutrition		1																							1							
Of which	Kwashiorkor																																
	Marasmus																														[
	Kwashiorkor- marasmus																																
Hepatitis	1																														[
Cirrhosis	hépatique																								1	1	1						
Hemorrh	ages digestives		1		1				†	<u> </u>							†	 							†	1	1						
Gastritis																										1	1				[
Gastro-d	uodenal Ulcers		1		1				†	<u> </u>							†	 							†	1	1						
Appendic	itis		1	<u>†</u>	†	<u>†</u>			†	<u> </u>	1						†	†	1	†	1			<u> </u>	†	·†·····	†				<u>├</u> ┥		
Hernias			1	<u> </u>	1	<u> </u>			†	†							†	*	<u>†</u>	†	1				1	1	†			{ 	h		
Non-TB p	peritonitis		1	<u>†</u>	1	<u>†</u>		1	†	<u> </u>							†	†		†					1	1	†						

		< 30) day	/5		1-11	mon	ths		12-	59 m	onthe	5	5-14	yea	rs '		15'	-24)	years		25 -	49 y	ears	;	50	year	s et +	ŀ	Tot	al		
		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F	
		No	DC	No	DC	No	DC	No	DC	No	DC	No	DC	No	DC	No	DC	No	DC	No	DC	No	DC	No	DC	No	DC	No	DC	No	DC	No	DC
Intestin	nal Occlusion																<u> </u>																ĺ
Urinary	tract infections																																ĺ
Renal in	fections				Τ		Ι		1								Ι		Ι								Ι]					
Of which	Syndrome néphrotique???]					
	Gromérulonéphrites???																																
Arterial	Hypertension				Τ			1									Ι		Ι														
Cardiopo	athy				Τ		Ι		1								Ι		Ι								Ι]			Ţ		
Stroke ((CVA)				T												1		1														
Diabete	S				1				1								1		1														
Obstetr	rical problems:																																
	Abortions, Miscarriages																																
Of which	Ectopic pregnancies				+												+		+														
	MAP ⁴																																
	Placenta previa	-															ļ		ļ								ļ						_
	Dystocic pregnancy				ļ		Ļ										ļ																
Post par	tum Observation																																
Post par	tum Complications																																
Of which	Infection puerpérale Fistula (vesico-vaginal																																
	or rectal) Hemorrhage				+												+										+						
Prematu	ire birth				1																												
Congeni	tal Anomalies		†		†																												/
Ostitis e	et Osteomyalitis???		†		†		†	1	†						 	†	1	†	†						1		†		†				
Other b	oone or joint disease		†		†		†	1	†							†	†	1	†						1		†	1	†				

⁴ MAP : Menace d'Accouchement Prématuré

	< 30) day	/S		1-11	lmont	ths		12-	59 m	onth	5	5-14	yea	rs '		15'	-24)	/ears		25 -	49 y	ears	3	50	year	s et ·	F	Tot	al		
	Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F		Μ		F	
	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC	Nb	DC
Neonatal Tetanus																																
Tetanus						Ι																										
Acute flassic paralysis						T																										
Others						1																										
Total																																

SUIVI & PRISE EN CHARGE DES PVV

Dépistage du VIH

CATEGORIES	< 5 ye	ars	5-14 y	ears	15-24	years	25-34		35-49 y	ears	50 ye	ars et +	Total	
	Μ	F	м	F	M	F	M	F	Μ	F	Μ	F	Μ	F
Number of clients received individually														
Number of clients counseled														
Number of clients tested														
Number of couples tested														
Number of clients who returned to receive test results														
Number of clients tested HIV+														
Number of clients HIV + who received their result														
Number of clients HIV negative who received their result														
Number of partners tested														
Number of sero-discordant couples														
Number of HIV + testing clients followed														

Follow-up

Follow-up of PLA	NC		AC		Tota	
	Μ	F	Μ	F	Μ	F
Children under 5 years						
School age children 5-14 years						
Adolescents (15-24 years)						
Adults						
25 - 34 years						
35 - 49 years						
≥ 50 years						
Total						

HIV/AIDS Treatment

Category	ategory of persons Treated with ARV					Trea	ated	for C	DI			Tre	eated	l for	STI			Baa	rin	n Pre	vent	ion		Tre	eated	d for	• TB				
living with	n AIDS	NC		OC		Tota	ıl	NC		ОС		Toto	ıl	NC		ОС		Tota	1	NC		ОС		Tot	al	NC		ОС		Tot	al
		Μ	۴	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	×	F	Μ	F	×	F	Μ	F	Μ	F	۶	F	Μ	F	Χ	F
Children	(< 5 years)																														
School ag	ge children																														1
(5 -14 ye	ars)																														1
Adolesce	nts (15-24																														1
years)																															I
Adults																															
~	25 -34 years																														
which	35-49 years																														
	≥50 years																														

Tatal															
Total															

ACTIVITES DE MATERNITE

ACCOUCHEMENTS

		Total	Of which referred by HC during labor	Of which referred by HC for ANC	Of which referred for pregnancy related illness	Number HIV+
Eutocic						
Dystocic						
dont par	Cesareans					
	Suction					
	Forceps					
	Craniotomy					
Total Acco	uchements					
Number of m	naternal deaths at the Maternity					
Number de f	emmes under post-partum observatio	n during at l	east 72 hours			

by geographic origin	District	Non-District	Total
Number of deliveries at the DH			

by PMTCT	District	Non-District	Total
HIV+ women taking ARVs			
Children taking ARVs			

CAUSES OF CESARIENS

Causes	Number of	Fate of the child		
	cases	Number born alive	Number of still-births	
Dystocic pregnancy				
Fetal distress				
Pre-eclampsia				
Eclampsia				
Fetal presentation				
Cesarien iterative????				
Other causes not listed above				

COMPLICATIONS OF CHILDBIRTH

Complications	Number
Retained Placenta	
Post-partum Hemorrhage	
Uterine Rupture	
Anemia	
Fever	
Infections	
Perineal tear	
Torn cervix	
Spleen or recto-vaginal fistula	
Maternal death at the maternity	

BIRTHS

Total Births	Live births		Deat	hs	
				Perinatal Mortality	
	< 2,5 Kg	≥ 2 ,5 Kg	In Utero	At birth	Neonatal

SUIVI DES ENFANTS DES MERES VIH+

Children monitored who were born of seropositive mothers		
PCR at 6 weeks	Of which HIV+	
Children tested at 9 months	Of which HIV+	
Children tested at 18 months	Of which HIV+	
Exclusively breastfed children		
Children receiving supplementary feeding		
HIV+ women who stopped breastfeeding at six months		

FAMILY PLANNING

	From catchment area of the District Hospital	Outside District	Total
Newly Registered			
Continuing users registered			

UTILISATION DES METHODES DE CONTRACEPTION PAR AGE

	Age				
Méthodes	15-24 years	25-34 years	35 -44 years	45-49 years	50 years et +
IUD					
Vasectomy					
Tubal ligation					
Implant					
Injectables					
Pills					
Condoms					
Cycle beads					
Other natural FP methods					
Total					

ACTIVITES DU BLOC OPERATOIRE

Services		Type d'intervention	urgent interventions	Planned interventions	Post-surgical Infection	Total
General surgery		Appendicitis				
	Hernias					
		Laparotomy				
		Thyroidectomy				
		Cataract				
		Adénomectomie ???				
		Trachoma				
		Glaucoma				
		Other				
		Total				
Gyneco -		Cesarean				
obstetrical		Hysterectomy				
		Laparotomy (GEU)				
		Other Laparotomies				
		Myomectomie				
		Curettage				
		Total				
Orthopedic		Amputations				
		Ostéosynthèse ???				
		Other				
TOTAL SURGICAL	INTERVENTIONS					
Of which	Major surgery					
	Minor surgery					

ANESTHESIA

Types of anesthesia	Total
General Anesthesia	
with gas	
with Ketamine	
Spinal-anesthesia	
Local Anesthesia	
Other types of anesthesia not mentioned	
Total	

Physical Therapy

Physical Therapy

	Outpatients	Hospitalized	Total
New cases			
Number of therapy			
sessions			

DIAGNOSTIC TESTING LABORATORY

			Résultats		
	Exams		Positifs	Négatifs	Total
Parasitology	Blood Smears	Total			
	Of which	Plasmodium			
		Borrelia			
		Trypanosomiasis			
		Micro-filaria			
	Stools	Total			
	Of which	Amebiasis			

			Giardia		
			Bilharzia		
			Other parasites	-	
Bacteriology	Smear	PAP	A frais ???		
			Gram		
			Of which Diplococus Gram (-)		
		Urethral	A frais ???		
			Gram		
			Of which Diplococus Gram (-)		
	Urine		Culot ???		
			Gram		
			Others		
	Sputum		Ziehl		
Hematology	VS ???				
	FNS ???				
	Hemoglobi	n			
	Blood grou	р			
	Other				
Blood chemistry	Glycemia				
	Urea				
	Creatinine				
	Transamina	ases ???			
	Others				
Biochimie d'urine	Albumin				
	Sugar				
	Other				
Serology	RPR ???				
	HIV				
	Pregnancy	test			
	Widal ???				
Other Liquids	LCR???				
	Amniotic f	luid			

Other exams		
TOTAL		

MEDICALE IMAGERY

Туре		Number
Radiology		
Of which	Lung	
	Os	
	Abdomen without preparation	
	Abdomen with dye	
	Other RX	
Gastrosco	РУ	
Echograph	ıy	
ECG		

BLOOD BANK SECURITY

By service

	Pediatrics	Internal medicine	Gyne- cology	Maternity	Surgery	Bloc opératoire	Total
Number of patients transfused							
Number de packs de sang utilisées							

Selon l'âge et le sexe

< 30 days	1-	12-59	5-14	15-24	25-49	50 years et	Total	Femmes enceintes
	11months	months	years	years	years	+		

	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	
Number patients transfused																	
Number de packs of blood used																	

By blood group, age and sex

	< 30 c	lays	1-11		12-59		5-14	·	15-24		25-49)	50 yea	rs et	Tota	l	Femmes enceintes
			month	5	months	:	year	5	years		years		+				
	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	Μ	F	
Quantity of packs of group A																	
Quantity of packs of group B																	
Quantity of packs of group AB																	
Quantity of packs of group O																	

HUMAN RESOURCE MANAGEMENT

Qualification/Specialty/Level	Status ⁵											
	Sous Statut???	Contracted by FOSA	Contracted by NGO/Project	Expatriate	Govt. Employees subsidized	Daily workers						
Qualified Medical Personnel												
Doctor												
Pharmacist												
Midwife A1												
Nurse A1												
Anesthetist A1												
Nurse ophthalmologist A1												
Dental Nurse A1												
Mental Health Nurse A1												
Physiotherapist A1												
Medical Assistant												
Nurse A2												
Nurse A3												
Non-qualified care providers												
Qualified medical technicians												
Lab tech A1												
Lab tech A2												
Lab tech A3												
Radiology Technician A1												
Non-qualified medical technicians												
Paramedical Personnel												
Assistant Social AO			Ì									

⁵ Tout le personnel doit être déclaré dans cette liste, y compris le personnel de soutien.

Assistant Social A1							
Assistant Social A2							
Counselors AO							
Counselors A1							
Nutritionist A1							
	Sous Statut	S/C avec FOSA	S/C avec ONG/Projets	Expatriés	Agréé Subsidié	Journaliers	TOTAL
Environmental Health Technician A1							
Environmental Health Technician A2							
Non-qualified paramedical Personnel							
Administrative Personnel							
Public Health AO							
Public Health A1							
Manager AO							
Manager A1							
Administrator AO							
Administrator A1							
Economist AO							
Economist A1							
Accountant A1							
Accountant A2							
Statistician AO							
Statistician A1							
Secretary A1							
Secretary A2							
Unqualified administrative personnel							
Non-medical technical personnel							
Computer technician AO							
Computer technician A1							

Maintenance worker A0				
Maintenance worker A1				
Maintenance worker A2				
Unqualified Non-medical technical personnel				
Unqualified support staff				
Divers				
First aid workers				
Workers				
Total				

MANAGEMENT OF THE PHARMACY

							Number of days of
	T	T	Consumptio	on	Péremption	1	stock out
Médicaments	Initial Quantity	Quantity received	Quantity	Value	Quantity	Value	
Anesthesics							
1. Ketamine inj 50mg/ml							
2. Lidocain inj. 1%							
3. Lidocain inj. 2%							
4. Lidocain inj. 5%							
5. Atropine							
Analgesics opiates							
1. Codeine tabs 30 mg							
2. Morphine inj.10 mg/ml							
3. Morphine tab 10 mg							
4. Pentazocine inj.30 mg/ml							
Anticonvulsants/antiepileptics							
1. Carbamazepine tab 200 mg							
2. Diazepam tab 5 mg							
3. Diazepam inj.5 mg/ml							
4. Phenobarbital tab 30 mg							
5. Phenobarbital inj.100mg/ml							
Antibiotics				ŕ			
1. Amoxycillin gél ou tab 250mg							
2. Amoxycillin susp.buv.125mg/5ml							
3. Benzathine benzylpenicillin inj. 2,4 MUI							
4. Benzylpenicillin procaine forte inj. 4 MUI							
5. Ciprofloxacin tab 250 mg							

6. Benzylpénicillin inj.5MUI							
7. Cloxacillin gél.250 mg							
8. Chloramphenicol gél.250 mg							
9. Gentamicin inj. 40mg/ml							
10. Ampicillin inj. 500 mg							
							Number de days
---	-------------------	------------------	----------	--------	-----------	--------	---------------------
			Consomme	ation	Péremptio	on .	de rupture de stock
	Quantité initiale	Quantité acquise	Quantité	Valeur	Quantité	valeur	
Antimalarial							
1. Quinine tab 300 mg							
2. Quinine syrup 100 mg/5 ml							
3. Quinine inj 100 mg/ml							
4. Quinine inj.300 mg/5ml							
5. Artemether + Lumefantrin 20mg + 120 mg							
6. Coartem syrup							
7. Arthemeter Vial 80 mg / ml							
8. Arthemeter Vial 20 mg / ml							
Médicaments used for cardiogie							
1. Digoxin tab 250µg							
2. Digoxin inj.250µg/ml							
3. Propanolol tab 40mg							
4. Methyldopa tab 250mg							
Uterotoniques ????							
1. Ocytocin Vial 10UI							
Anti-tuberculolsis							
1 st line treatment							
RHZE (R150+H75+Z400+E275)							
RH (R150+H75)							
RHE (R150+H75+E275)							
Streptomycin 1 gr							
Pediatric formulary:							

Nucleon-location Image: location of the location of th	DHZ (D60+H30+Z150)				
art (wort rsto)art (wort rsto)art (wort rsto)Ethamburd 400 mgImage: state sta					
Homboriol 400 mgImage: state					
OthersImit and the set of the	Ethambutol 400 mg				
NH 100Image: state of the state	Others				
Pyridoxine 25 mgImage: state of the state of	INH 100				
Pyridoxine 50 mgImage: state	Pyridoxine 25 mg				
2 nd line treatmentImage: second	Pyridoxine 50 mg				
Kanamycin 1 grImage: Section of the secti	2 nd line treatment				
Pyrazinamide 400 mgImage: state sta	Kanamycin 1 gr				
Of loxacin 200 mgImage: state	Pyrazinamide 400 mg				
Prothinomide 250 mgImage: sector of the sector	Ofloxacin 200 mg				
Cycloserin 250 mgImage: solution of the solution of t	Prothionamide 250 mg				
PAS tab 1grImage: sector of the s	Cycloserin 250 mg				
PASER granulesImage: state st	PAS tab 1gr				
Clofazimine tab 100 mgImage: Section	PASER granules				
Materiel for injectionMateriel for injectionImage: Second S	Clofazimine tab 100 mg				
SyringesImage: syringes<	Materiel for injection				
DiluentsImage: solution of the soluti	Syringes				
Reagents and Lab ConsumablesImage: ConsumablesImage: ConsumablesKinyoun AImage: ConsumablesImage: ConsumablesImage: ConsumablesKinyoun BImage: ConsumablesImage: ConsumablesImage: ConsumablesImage: ConsumablesFuchsineImage: ConsumablesImage: ConsumablesImage: ConsumablesImage: ConsumablesImage: ConsumablesSulfuric acideImage: ConsumablesImage: ConsumablesImage: ConsumablesImage: ConsumablesImage: ConsumablesImage: ConsumablesSpittoonsImage: ConsumablesImage: ConsumablesImage: ConsumablesImage: ConsumablesImage: ConsumablesImage: Consumables	Diluents				
Kinyoun AKinyoun BImage: Selection of the selection of th	Reagents and Lab Consumables				
Kinyoun B Image: Constraint of the second secon	Kinyoun A				
Fuchsine Image: Constraint of the second s	Kinyoun B				
Sulfuric acide Image: Sulfuric acide Methylene Blue Image: Spittoons	Fuchsine				
Methylene Blue	Sulfuric acide				
Spittoons	Methylene Blue				
	Spittoons				

	1	1	1	1	1	1
Slides						
Anti-leprosy						
Plaquettes MB adulte???						
Plaquettes MB enfant???						
Plaquettes PB adulte???						
Plaquettes PB enfant???						
Prednipac						
Perfusion Solutions						
1. Glucose 5% 500 ml						
2. Ringer Lactate 500 ml						
3. Glucose hypertonic (10% ou 50%)						
4. NaCl 500 ml						
5. Haemacel 500 ml						

Total Value of stock total on record (in Frws)	
Actual value of inventory (in FRWs)	
Difference (in FRWs)	
Total value of expired items (in FRWs)	

GESTION FINANCIERE

RECETTES			DEPENSES		
Libellé		Montant total		Libellé	Montant total
1. Outpatient Curativ	ve Consultations			1. Purchase of medicines, medical materials	
2. Hospitalization				2. Personnel	
	Medicine general			Salaries of personnel paid by the hospital	
	Surgery			Employee bonuses	

Pediatrics	Social Security contributions
Gyneco-Obstetrics	Income taxes for personnel
Private rooms (Clinical)	3. Running costs:
Nutritional Rehabilitation	Travel expenses
Intensive care	Office supplies
3. Deliveries	Purchase of medical records and other printed material
4. Sale of medicines/ medical supplies	Fuel and lubricants
5. Laboratory	Communication
6. Minor Surgery	Water -Electricity
7. Operating room (Major and minor surgery)	Cleaning material and supplies
8. Physiotherapy	Costs associate with indigents
9. Medical imagery	4. Purchase medical equipment
10. Medico-legal documentation (Autopsies, Medical	5. Purchase non-medical equipment
certificates)	
11. Sale of patient records/forms	6. Purchase transport
12. Performance Based Financing	
13. Other State Subsidies	7. Maintenance
14. Financial Contributions from other donors	Hygiene and infrastructure
15. Patient transport (Ambulances)	Non-Medical equipment
16. Mutuelles	Medical equipment
Co-payments	Transport (Vehicles, Motorcycles, Ambulances)
Payment for care	9. Training
Payment for medication	
17. Other receipts	10. Other expenses
18. funds received to support health center activities	11. Funds paid to health centers
Total receipts (a)	Total expenses (b)

Credits		Debts	
Description	Amount	Description	Amount

Credits at the beginning of the month (e)	Debts at the beginning of the month (i)
(+) Additional credits during the month (f)	(+) Total debts this month (j)
(-) Reimbursements during the month (q)	(-) Reimbursements this month (k)
Total credits at the end of the month (H) = (e+f)-(g)	Debt at the end of the month (L) = (i+ j) -(k)

Comparison of receipts wit	h payments o	lue			
Receipts in hand	Pending Rec	eipts			Total pending receipts
From the population (C)	Indigents (u)	Other non-paying clients* (v)	Credits for goods and services during the month** (w)	Total receipts not received (X) = u+v+w	(Y)= (C) + (X)
Ratio of pending receipts/receipts i	n hand (Z) =(X) X	100/ (Y)			

Financial Statement				
Description	Amount		Description	Amount
General bank account (m)			Total available at the beginning of the month (r)	
(+) Pharmacy band account (n)			(+)balance of receipts and expenses (s) = (A-B)	
(+) general cash on hand (o)				
(+)pharmacy cash on hand (p)				
Total available at the end of month (Q) = m+n+o+p		Q=T	Total available at the end of the month (T) = r + s	

Value of outside donation	s and gifts in kind							
Sous-catégorie	Quantity (units)	Amount by source (frws)						
		Population	Donors	State	Total			
Pharmaceuticals/Consumables								
ARV								
Vaccines								
Contraceptives								
Medical equipment								
Non medical equipment								
Computer equipment								
Office supplies								
Transport								
Food								
Salaries and other personnel costs								
Other types of interventions								

ANNEX 6: Community HMIS

🔙) MUNAUTA	AIRE				_		
de compilat	ion	☐ Village ☐ Cel Coopérative	lule 🛛		Année		
Nom du Village/Cel	llule/Coopérative				Mois		
District			Po	pulation ci	ble totale	;	
Nombre d'ASC	Nombre	e qui ont	No	mbre d'en	fants de	0 à	
total Nom du	rapporte	ê l	5 a Nc	ans Imbre de fe	mmes d		
Responsable			15	à 49 ans			
Priso on charge d	onfante malado	c		Nomb	Gué	Déc	Réfé
1 Nombre total de	enance natace				113	63	163
2 Nombre de cas	de mains de 2 m						
2 Nombro do cont							
Nombre de cas	de 6 mois à 59 m	ues	és avar				
4 24h.			55 avan	n			
5 Nombre de cas 24h.	de 6 mois à 59 m	ois avec fièvre trait	és aprè	s			
6 Nombre de cas	diarrhée traités						
7 Nombre de cas	pneumonie traité	S					
B. Etat Nutritionne	elle (Poids ou M	UAC) et Vaccinatio	on	Nom bre	Gué ris	Déc ès	Réfé rés
1 Nombre d'enfan	ts Verts (V)						
2 Nombre d'enfan	ts Jaunes (J)		_			Γ	「
•							1
3 Nombre d'enfan	ts Rouges (R)						
3 Nombre d'enfan 4 Nombre d'enfan complètement v	ts Rouges (R) ts de 9 à 12 mois accinés	qui ne sont pas en	core				
3 Nombre d'enfan 4 Nombre d'enfan complètement v C. Supervisions re réunions/IEC	ts Rouges (R) ts de 9 à 12 mois accinés sçues et Particip	qui ne sont pas en	core Nom bre	G. Sto	ock	Distrit	o Re ste
3 Nombre d'enfan 4 Nombre d'enfan complètement v C. Supervisions re réunions/IEC 1 Nombre de super des ASC	Its Rouges (R) Its de 9 à 12 mois accinés acues et Particip arvisions reçues d	qui ne sont pas en pation aux Ju Coordinateur	core Nom bre	G. Sto Pilules	ock	Distrit	o Re ste
 3 Nombre d'enfan 4 Nombre d'enfan complètement v C. Supervisions re réunions/IEC 1 Nombre de super des ASC 2 Nombre de super 	nts Rouges (R) its de 9 à 12 mois accinés eçues et Particip ervisions reçues c ervisions reçues c	a qui ne sont pas en pation aux du Coordinateur de la cellule	core Nom bre	G. Sto Pilules Condo	ock ims	Distritué	D Re ste
 3 Nombre d'enfan 4 Nombre d'enfan complètement v C. Supervisions revisions revisions/IEC 1 Nombre de superdes ASC 2 Nombre de superdes ASC 3 Nombre de réun 	ets Rouges (R) its de 9 à 12 mois accinés eçues et Particip ervisions reçues d ervisions reçues d ions des ASC au	a qui ne sont pas en Pation aux du Coordinateur de la cellule Centre de Santé	core Nom bre	G. Sto Pilules Condo Cycle	ock oms beads	Distritué	2 Re ste
 3 Nombre d'enfan 4 Nombre d'enfan complètement v C. Supervisions revisions revisions/IEC 1 Nombre de superdes ASC 2 Nombre de superdes ASC 3 Nombre de réun 4 Nombre de sess 	Its Rouges (R) Its de 9 à 12 mois accinés eçues et Particip ervisions reçues d ervisions reçues d ions des ASC au	a qui ne sont pas en ation aux du Coordinateur de la cellule Centre de Santé asse	core Nom bre	G. Sto Pilules Condo Cycle Contra injecta	ock ms beads aceptif ble	Distritué	o Re ste
 3 Nombre d'enfan 4 Nombre d'enfan complètement v C. Supervisions revisions revisions/IEC 1 Nombre de superdes ASC 2 Nombre de superdes ASC 2 Nombre de superdes ASC 3 Nombre de superdes ASC 4 Nombre de sess D. Santé Maternel 	Its Rouges (R) Its de 9 à 12 mois accinés eçues et Particip ervisions reçues d ervisions reçues d ions des ASC au eions d'IEC de ma	a qui ne sont pas en ation aux du Coordinateur de la cellule Centre de Santé asse	Core Nom bre Nom re	G. Store Pilules Condo Cycle Contra injecta b Coarte (rouge	ock oms beads beeds ble em)	Distritué	2 Re ste
 3 Nombre d'enfan 4 Nombre d'enfan complètement v C. Supervisions revisions revisions/IEC 1 Nombre de superdes ASC 2 Nombre de superdes ASC 2 Nombre de superdes ASC 3 Nombre de superdes ASC 4 Nombre de sesses D. Santé Maternel 1 Nombre de femine 	Its Rouges (R) Its de 9 à 12 mois accinés eçues et Particip ervisions reçues d ervisions reçues d ions des ASC au sions d'IEC de ma le mes accompagné	a qui ne sont pas en pation aux du Coordinateur de la cellule Centre de Santé asse	Core Nom bre Nom re	G. Store Pilules Condo Cycle Contra injecta b Coarte (rouge Coarte	ock oms beads aceptif ble om) em	Distrik	2 Re ste
 3 Nombre d'enfan 4 Nombre d'enfan complètement v C. Supervisions revisions revisions/IEC 1 Nombre de superdes ASC 2 Nombre de superdes ASC 2 Nombre de superdes ASC 3 Nombre de réun 4 Nombre de sess D. Santé Maternel 1 Nombre de feminipour CPN <= 4 pour CPN <= 4 pou	Its Rouges (R) Its de 9 à 12 mois accinés eçues et Particip ervisions reçues d ervisions reçues d ions des ASC au sions d'IEC de ma le mes accompagné mois de grossess pes enceintes ac	a qui ne sont pas en ation aux du Coordinateur de la cellule Centre de Santé asse is au CS par l'ASC e. compagne au CS	Nom Nom Nom re	G. Store Pilules Condo Cycle Contra injecta b Coarte (rouge Coarte (jaune	ock beads beads beads ceptif ble em) em	Distritué	o Re ste
 3 Nombre d'enfan 4 Nombre d'enfan complètement v C. Supervisions revisions revisions revisions/IEC 1 Nombre de superdes ASC 2 Nombre de superdes ASC 2 Nombre de superdes ASC 3 Nombre de réun 4 Nombre de sess D. Santé Maternel 1 Nombre de feminipour CPN <= 4 minipour CPN <= 4 minipour feminipar l'ASC pour f	Its Rouges (R) Its de 9 à 12 mois accinés eçues et Particip ervisions reçues d ervisions reçues d ions des ASC au sions d'IEC de ma le mes accompagné mois de grossess mes enceintes ac acteur de risque	a qui ne sont pas en pation aux du Coordinateur de la cellule Centre de Santé asse is au CS par l'ASC ie. compagne au CS	core Nom bre Nom re	G. Store Pilules Condo Cycle Contra injecta b Coarte (rouge Coarte (jaune Zinc	ock oms beads beads aceptif ble em) em	Distrilué	D Reste

4	Nombre accompagne par l'ASC pour l'accouchement au CS		Amoxyciline	
5	Nombre d'accouchements à domicile		Mebendazole	
6	Femmes accouchés à domicile et réfères au CS/Hôpital		SurEau	
7	Nombre de couples référés pour PMTCT		Vitamine A	
8	Planning Familiale: Nouveaux utilisateurs référés ce mois		Bednets	
E.	Mortalité a domicile	Nomb re		
1	Nombre de décès maternel (liés à la grossesse ou l'accouchement)			
2	Nombre de décès des enfants <5 ans dans la communauté			
F.	Surveillance et VIH	Nomb re		
1	Nombre de nouveau cas de tuberculose suspect référés			
2	Nombre de cas de tuberculose suivi à la maison			
3	Nombre de cas suspect de paralysie flasque/rougeole référés			