

Table 1: Outcomes to be measured during the monitoring and evaluation phase

Outcomes	Indicators	Numerator/ Denominator	Methods of assessment	Time point for assessment	Targeted populations	Data collection tools
<u>Outcome 1:</u> the implementation of the MFT pilot programme	- Average number of monitoring visits per health facility and drugs stores involved in the study per annum	<u>Numerator:</u> Number of monitoring visits per health facility and drugs stores involved in the study per annum <u>Denominator:</u> Number of health facility and drugs stores involved in the study	Health facility-based survey Central, regional and district-based surveys	End of MFTs deployment phase	Health facilities Drugs stores	Monitoring visit report template
	- Average number of monitoring visit on which drugs stores have stock out of any dose of study ACTs per annum	<u>Numerator:</u> Number of monitoring visit on which drugs stores have stock out of any dose of study ACTs per annum <u>Denominator:</u> Number of drugs stores involved in the study	Health facility-based survey Central, regional and district-based surveys	End of MFTs deployment phase	Drugs stores	Monitoring visit report template
	- Average number of monitoring visit on which health facilities have stock out of mRDTs per annum	<u>Numerator:</u> Number of monitoring visit on which health facilities have stock out of mRDTs per annum <u>Denominator:</u> Number of health facilities involved in the study	Health facility-based survey Central, regional and district-based surveys	End of MFTs deployment phase	Drugs stores	Monitoring visit report template
<u>Outcome 2:</u> The coverage of febrile episode/malaria promptly and appropriately managed by health workers according to the MFT pilot programme	- Proportion of febrile episode seen at the health facility level	<u>Numerator:</u> Number of febrile episodes taken to a health facility <u>Denominator:</u> Number of febrile episodes	Household survey	During MFTs deployment phase at peak malaria season	Caregivers, pregnant women, adults	KAP questionnaire
	- Proportion of febrile episode seen at health facility level (HFL) within 24 hours	<u>Numerator:</u> Number of febrile episodes taken to a health facility within 24h <u>Denominator:</u> Number of febrile episodes	Household survey Health facility-based survey	During MFTs deployment phase at peak malaria season	Caregivers, pregnant women, adults Registers of health facility	KAP questionnaire Data extraction forms

				End of MFTs deployment phase		
	Proportion of febrile episode seen at HFL within 24 hours and tested for parasitemia	<p><u>Numerator</u>: Number of febrile episodes seen at the health facility and tested for parasitemia</p> <p><u>Denominator</u>: Number of febrile episodes taken to a health facility</p>	Household survey Health facility-based survey	During MFTs deployment phase at peak malaria season End of MFTs deployment phase	Caregivers, pregnant women, adults Registers of health facility	KAP questionnaire Data extraction forms
	Proportion of febrile episode seen at HFL within 24 hours with positive diagnostic test who were given ACT according to the MFTs strategy	<p><u>Numerator</u>: Number of febrile episodes seen at a health facility with a positive diagnostic test and treated with ACT according to the MFTs strategy</p> <p><u>Denominator</u>: Number of febrile episodes with a positive diagnostic test</p>	Household survey Health facility-based survey	During MFTs deployment phase at peak malaria season End of MFTs deployment phase	Caregivers, pregnant women, adults Registers of health facility	KAP questionnaire Data extraction forms
	Proportion of febrile episode seen at HFL within 24 hours with a negative diagnostic test who did not receive any antimalarial.	<p><u>Numerator</u>: Number of febrile episodes seen at a health facility with a negative diagnostic test and not treated with ACT according to the MFTs strategy</p> <p><u>Denominator</u>: Number of febrile episodes with a negative diagnostic test</p>	Household survey Health facility-based survey	During MFTs deployment phase at peak malaria season End of MFTs deployment phase	Caregivers, pregnant women, adults Registers of health facility	KAP questionnaire Data extraction forms
	Proportion of febrile episode seen at HFL within 24 hours with a negative diagnostic test who received an ACT.	<p><u>Numerator</u>: Number of febrile episodes seen at a health facility with a negative diagnostic test and treated with ACT</p> <p><u>Denominator</u>: Number of febrile episodes with a negative diagnostic test</p>	Household survey Health facility-based survey	During MFTs deployment phase at peak malaria season End of MFTs deployment phase	Caregivers, pregnant women, adults Registers of health facility	KAP questionnaire Data extraction forms

<p>Outcome 3: the adherence of caregivers/febrile patients to ACTs treatment schedule provided by health workers according to MFTs pilot programme</p>	<p>Proportion of febrile episodes treated with ACTs adhering to ACT treatment schedule (timing and doses) by HWs according to MFTs strategy</p>	<p>Numerator: Number of febrile episodes treated with ACT provided by health workers according to MFTs strategy adhering to ACT treatment schedule (timing and dosing)</p> <p>Denominator: Number of febrile episodes treated with ACT provided by health workers according to MFTs strategy</p>	<p>Household surveys</p>	<p>During MFTs deployment phase at peak malaria season</p>	<p>Caregivers, adults, pregnant women</p>	<p>KAP Questionnaire</p>
<p>Outcome 4: The acceptability of the MFT pilot programme</p>	<p>- Number of favourable and unfavourable opinions from various profiles of informants about the intervention, including health agents of different levels and authorities, concerning the MFTs pilot programme.</p> <p>- Proportion of community resources people (mothers/caregivers, health agents, heads of household (male participants) community leaders) with favourable opinions to the MFTs pilot programme and their reasons</p> <p>- Proportion of community resources people (mothers/caregivers, health agents, heads of household (male participants) community leaders) with unfavourable opinions to the MFTs pilot programme and their reasons</p>	<p>Numerator: Exploration of selected informants' opinions</p> <p>Comparison of different opinions</p> <p>Denominator: Caregivers, pregnant women, adults, community leaders, health workers, health authorities</p>	<p>Qualitative surveys</p> <p>Household surveys</p>	<p>During MFTs deployment phase at peak malaria season</p> <p>End of MFTs deployment phase</p>	<p>Caregivers, adults, pregnant women, key community leaders, health workers, health authorities</p>	<p>FGD, IDI guides</p> <p>KAP questionnaire</p>
<p>Outcome 5: the cost of the MFT pilot programme</p>	<p>- Cost per additional febrile episode receiving prompt treatment or confirmed negative diagnosis</p>	<p>Numerator: Total economic cost, cost savings</p> <p>Denominator: Additional number of febrile episodes given ACT with a negative parasitological test within 24 hours</p>	<p>Household survey</p> <p>Health facility-based survey</p>	<p>During MFTs deployment phase at peak malaria season</p> <p>End of MFTs deployment phase</p>	<p>Caregivers, pregnant women, adults</p> <p>Health workers</p>	<p>Cost data collection forms</p> <p>KAP questionnaire</p> <p>Data extraction forms at the health facility level</p>

					Registers of health facility	
- Cost per additional inappropriate antimalarial treatment avoided	<p><u>Numerator:</u> Total economic cost, cost savings</p> <p><u>Denominator:</u> Additional number of confirmed negative episodes not treated with an ACT</p>	Household survey	Health facility-based survey	During MFTs deployment phase at peak malaria season End of MFTs deployment phase	Caregivers, pregnant women, adults Health workers Registers of health facility	Cost data collection forms KAP questionnaire Data extraction forms at the health facility level
- Cost per additional febrile episode appropriate managed for malaria with a confirmed diagnosis	<p><u>Numerator:</u> Total economic cost, cost savings</p> <p><u>Denominator:</u> Additional number of febrile episodes treated with ACT or with a negative parasitological test within 24 hours</p>	Household surveys	Health facility-based surveys	During MFTs deployment phase at peak malaria season End of MFTs deployment phase	Caregivers, adults, pregnant women, health workers Registers of health facilities,	KAP Questionnaire, Cost data collection forms Data extraction forms at the health facility level
- Cost per capita of intervention (provider and societal perspective)	<p><u>Numerator:</u> Total economic cost-Cost savings</p> <p>Total financial cost-cost saving</p> <p><u>Denominator:</u> Population of the area</p>	Household surveys	Health facility-based surveys	During MFTs deployment phase at peak malaria season End of MFTs deployment phase	Caregivers, pregnant women, adults Health workers Registers of health facility	Cost data collection forms Census data collection forms

	- Cost to the HWs to participate in the MFTs strategy	<u>Numerator:</u> Economic costs to HWs participating in the MFTs strategy <u>Denominator:</u> Number of HWs	Health facility-based surveys	End of MFTs deployment phase	Health workers Registers of health facility	Cost data collection forms
<u>Outcome 6:</u> the quality of care provided /performance of health workers	- Proportion of episode of uncomplicated fever seen by HWs tested for malaria parasitemia	<u>Numerator:</u> Number of episodes of uncomplicated fever seen by HWs tested with mRDT/blood smear <u>Denominator:</u> Number of uncomplicated fever episodes/malaria fever seen by HWs	Health facility-based surveys Household surveys	End of MFTs deployment phase During MFTs deployment phase at peak malaria season	Registers of health facilities Caregivers, adults, pregnant women, health workers	Data extraction forms KAP questionnaire
	- Proportion of uncomplicated fever episodes/malaria seen by HW, tested positive and treated with the correct dose of ACT according to MFTs pilot programme	<u>Numerator:</u> Number of uncomplicated fever episodes/Malaria seen by HWs, tested positive and treated with the correct dose of ACT according to MFTs pilot programme <u>Denominator:</u> Number of uncomplicated fever episodes/malaria seen by HWs and tested positive.	Health facility-based surveys Household surveys	End of MFTs deployment phase During MFTs deployment phase at peak malaria season	Registers of health facilities Caregivers, adults, pregnant women, health workers	Data extraction forms KAP questionnaire
	- Proportion of febrile episodes treated with ACTs according to MFTs pilot programme by HWs provided with appropriate dosing advice	<u>Numerator:</u> Number of uncomplicated febrile episodes/malaria treated with ACTs according to MFTs approach by HWs provided with appropriate dosing advice <u>Denominator:</u> Number of uncomplicated febrile episodes/malaria treated with ACTs according to MFTs pilot programme by HWs	Health facility-based surveys Household surveys	End of MFTs deployment phase During MFTs deployment phase at peak malaria season	Registers of health facilities Caregivers, adults, pregnant women, health workers	Data extraction forms KAP questionnaire

	Proportion of uncomplicated febrile episodes/malaria seen by HWs provided with advice on danger signs	<p><u>Numerator:</u> Number of uncomplicated febrile episodes/malaria seen by HWs provided with advice on danger signs</p> <p><u>Denominator:</u> Number of uncomplicated febrile episodes/malaria seen by HWs</p>	Health facility-based surveys	End of MFTs deployment phase	Registers of health facilities	Data extraction forms
			Household surveys	During MFTs deployment phase at peak malaria season	Caregivers, adults, pregnant women, health workers	KAP questionnaire
<u>Outcome 7:</u> the impact of MFT pilot programme on malaria incidence	Incidence of uncomplicated febrile episode/malaria within 4 weeks preceding the survey, before and during the MFTs deployment	<p><u>Numerator:</u> Number of uncomplicated febrile episode/malaria within 4 weeks preceding the survey, before and during the MFTs deployment</p> <p><u>Denominator:</u> Number of persons per segments of the population</p>	Household surveys,	MFTs deployment phase at the peak of the malaria season	Caregivers, adults, pregnant women	KAP Questionnaire,
	Proportion of uncomplicated febrile episode/malaria seen at health facility level before and during the MFTs deployment in the study area	<p><u>Numerator:</u> Number of uncomplicated febrile episodes/malaria seen by HWs at HFL during study periods (before and during the MFTs deployment) per segments of the population</p> <p><u>Denominator:</u> Number of person-years per segments of the population during the study periods</p>	Health facility level	End of MFTs deployment phase	Registers of health facilities	Data extraction forms
<u>Outcome 8:</u> the impact of the MFT pilot programme on malaria mortality	Mortality rate related to febrile episode/malaria before and during the pilot MFTs deployment	<p><u>Numerator:</u> Number of malaria-associated deaths before and during the pilot MFTs deployment phase per segments of the population</p> <p><u>Denominator:</u> Number of person-years per segments of the population</p>	Household surveys,	End of MFTs deployment phase	Caregivers, adults, pregnant women	HDSS mortality data collection forms
			Health facility level		Registers of health facilities	Data extraction forms
<u>Outcome 9:</u> the effect of MFT pilot programme on	Proportion of individuals with fever in the last four weeks for whom advice or treatment was sought	<u>Numerator:</u> Number of individuals with fever in the last four weeks for whom advice or treatment was sought	Household surveys	MFTs deployment phase at the	Caregivers, adults,	KAP Questionnaire

treatment-seeking behaviour for fever episodes/malaria		<u>Denominator: Number of individuals with fever in the last four weeks</u>		peak of the malaria season	pregnant women	
	Proportion of individuals with fever in the last four week who sought treatment at HFL within 24 hours	<u>Numerator: Number of individuals with fever in the last four weeks who sought treatment at HFL within 24 hours</u> <u>Denominator: Number of individuals with fever in the last four weeks</u>	Household surveys	MFTs deployment phase at the peak of the malaria season	Caregivers, adults, pregnant women	KAP Questionnaire
	Source of advice or care for those suffering from fever in the last four weeks	<u>Numerator: Number per type of source of advice or care for those suffering from fever in the last four weeks</u> <u>Denominator: Number of individual suffering from fever in the last four weeks who sought advice or care</u>	Household surveys	MFTs deployment phase at the peak of the malaria season	Caregivers, adults, pregnant women	KAP Questionnaire