

**Table 1: Budget Breakdown by Mechanism
U.S. President's Malaria Initiative - GHANA
Planned Malaria Obligations for FY 2021**

Mechanism	Activity	Budget	%
CDC IAA	Support to FETP, CDC in-country staffing and administration, and SM&E-related CDC TDY	\$550,000	2%
G2G Ghana	Implementation of laboratory OTSS, clinical ISS, SMC, regional data review, verification and analysis, and malaria community engagement SBC activities	\$2,455,000	9%
Global Health Supply Chain Procurement and Supply Management (GHSC PSM) Malaria	Commodity procurement, warehousing, and distribution of ITNs, SP, SPAQ, injectable artesunate, and supply chain TA	\$11,086,928	41%
Malaria Data Integration and Visualization (M-DIVE)	Support for M-DIVE	\$202,500	1%
Peace Corps	Support malaria volunteers and grants to engage in malaria control and prevention activities	\$30,000	0%
PMI Impact Malaria	Implementation of clinical OTSS, TA on diagnostics	\$2,250,000	8%
PMI VectorLink	Entomological and insecticide resistance monitoring, IRS program implementation, TA for ITN continuous distribution, and ITN durability and monitoring	\$6,542,072	24%
Promoting the Quality of Medicines Plus (PQM+)	Support to Ghana FDA to regulate and monitor quality of antimalarial drugs	\$150,000	1%
TBD Central Mechanism	Support for digital diagnostics	\$202,500	1%
TBD Ghana Bilateral	SBC Bilateral to support mass media malaria activities and SBC capacity building of NMCP and HPD; Integrated SME bilateral to provide TA support for data quality and support for USAID Ghana M&E	\$1,950,000	7%
TBD NMIMR	Support therapeutic efficacy studies and National Insecticide Resistance Monitoring Partnership	\$270,000	1%
USAID	USAID in-country staffing and administration	\$1,311,000	5%
TOTAL		\$27,000,000	100%

**Table 2: Budget Breakdown by Activity
U.S. President's Malaria Initiative - GHANA
Planned Malaria Obligations for FY 2021**

Proposed Activity	Mechanism	Budget (in \$)	Geographic Reach of PMI Activity		Description of Proposed Activity
			If coverage is focused by region(s), name(s) of region(s)	If coverage is focused by district(s), name(s) of district(s)	
VECTOR CONTROL					
Entomological Monitoring					
Support Entomologic Monitoring	PMI VectorLink	\$400,000	North East, Northern, To Be Determined	To Be Determined	Maintain expanded support for routine entomological monitoring in additional sites to address gaps in geographic coverage. The total number of sites is to be determined, but will aim to capture entomological indicators across ecological zones and different vector control interventions (e.g., IRS, pyrethroid ITNs, pyrethroid + PBO ITNs). Activities will include monthly vector bionomics monitoring, spray quality assurance and residual efficacy monitoring in IRS districts, annual insecticide susceptibility testing to monitor insecticides used for IRS in PMI spray districts, and molecular analysis of entomological samples. This activity will leverage existing and new partnerships with local research institutions as well as the NMCP. Funding will support capacity building at each institution as well as at the national level, including training and equipment for the National Insecticide Resistance Monitoring Partnership (NIRMOP).
Support Entomologic Monitoring	TBD NMIMR	\$120,000	Nationwide		In coordination with the Global Fund, support insecticide resistance monitoring at 30 National Insecticide Resistance Monitoring Partnership (NIRMOP) sentinel sites. Funding directly supports Noguchi Memorial Institute for Medical Research (NMIMR) to oversee field work, laboratory analysis of specimens, data management and analysis, and reporting.
Subtotal : \$520,000					

Insecticide-Treated Nets

Procure ITNs for Continuous Distribution Channels	Global Health Supply Chain Procurement and Supply Management (GHSC PSM) Malaria	\$5,144,859	Nationwide			Procure approximately 1,500,000 PBO ITNs for the May /June 2022 school-based distribution.
Distribute ITNs for Mass Campaigns	Global Health Supply Chain Procurement and Supply Management (GHSC PSM) Malaria	\$1,453,500	Nationwide			Support for school-based distribution of 1,453,350 ITNs at \$1 per net.
Other ITN Implementation	PMI VectorLink	\$800,000	Nationwide			Provide technical assistance to support GHS/NMCP in continuous distribution of ITNs through ANC and CWC clinics in health facilities. Funds will support the costs of training, planning, supervision, operations, monitoring and reporting. Funds will also support targeted districts quantification and management of ITNs for continuous distribution based on needs identified from supervision visits.

Subtotal : \$7,398,359

Indoor Residual Spraying

IRS Implementation	PMI VectorLink	\$4,200,000		North East, Northern	Bunkpurugu - Nakpanduri, East Mamprusi, Gushiegu, Karaga, Kumbungu, Mamprugu-Moagduri, Tatale-Sangule, West Mamprusi, Yunyoo-Nasuan	Support IRS implementation in 9 districts in the Northern and North East Regions. Funding will support spray operations, logistics, procurement of equipment, SBCC activities including community mobilization, monitoring of spray coverage, and supervision (GHS, EPA, Noguchi) in collaboration with the NMCP, MaVCOC, the AGAMal IRS program, and other partners.
Procure Insecticides for IRS	PMI VectorLink	\$1,100,000		North East, Northern	Bunkpurugu - Nakpanduri, East Mamprusi, Gushiegu, Karaga, Kumbungu, Mamprugu-Moagduri, Tatale-Sangule, West Mamprusi, Yunyoo-Nasuan	Procurement of insecticide for IRS in nine districts.

Subtotal : \$5,300,000

SBC for Vector Control

SBC Implementation for Vector Control	TBD Ghana Bilateral	\$300,000	Nationwide			Funding will support capacity building of NMCP, HPD, RHMT, and DHMT to deliver appropriate SBC activities for vector control in line with stratification in the NMSp, and support attendance in SBC-specific trainings or conferences. Support will include below the line activities through the malaria community engagement program as well as above the line mass media malaria activities.
SBC Implementation for Vector Control	G2G Ghana	\$200,000	Nationwide			Support the GHS Health Promotion Division (HPD) to strengthen malaria SBC activities through expansion of malaria community engagement and outreach. Support will engage CHPS nurses, health officers, and health volunteers to engage with communities to identify barriers and promote consistent care and use of ITNs in communities, and correct IRS compliance in target districts.

Subtotal : \$200,000

Total : \$13,718,359

DRUG-BASED PREVENTION

Prevention of Malaria in Pregnancy

Procure IPTp-Related Commodities	Global Health Supply Chain Procurement and Supply Management (GHSC PSM) Malaria	\$232,800	Nationwide			Procure approximately 970,000 SP treatments to ensure adequate supply for pregnant women to receive 3 doses throughout their pregnancies. This is intended to serve as a buffer stock to ensure an adequate and consistent supply as GoG continues strengthen their procurement processes.
MIP Implementation	PMI Impact Malaria	\$450,000	Nationwide			Support health care workers at health facilities and CHPS compounds in all 16 regions to effectively deliver malaria prevention services to pregnant women, including supportive supervision and on-site training of IPTp at every ANC visit and ensuring the distribution of an ITN at first ANC visit.

Subtotal : \$682,800

SMC

Procure SMC-Related Commodities	Global Health Supply Chain Procurement and Supply Management (GHSC PSM) Malaria	\$1,034,269		North East, Northern, Savannah	Procure 100% of the required SP+AQ, approximately 2,795,322 doses, representing four monthly doses for approximately 643,500 children (ages 3-59 months) for the June 2022 SMC campaign in Northern, North East, and Savannah regions.
SMC Implementation	G2G Ghana	\$755,000		North East, Northern, Oti, Savannah	Support operational costs associated with the June 2021 SMC campaign in Northern, North East, Oti, and Savannah regions. The GHS/PMU through NMCP will implement this activity.

Subtotal : \$1,789,269**SBC**

SBC Implementation for Prevention	TBD Ghana Bilateral	\$300,000	Nationwide		Funding will support capacity building of NMCP, HPD, RHMTs and DHMTs to deliver appropriate SBC interventions for MIP and SMC, and support attendance in SBC-specific trainings or conferences. Support will also include below the line activities through the malaria community engagement program as well as above the line mass media malaria activities.
SBC Implementation for Prevention	G2G Ghana	\$150,000	Nationwide		Support the GHS Health Promotion Division (HPD) to strengthen malaria SBC activities through expansion of malaria community engagement and outreach. Support will engage CHPS nurses, health officers, and health volunteers to engage with communities and promote correct and consistent uptake of both preventative malaria interventions.

Subtotal : \$150,000**Total : \$2,922,069**

CASE MANAGEMENT

Procure Case Management-Related Commodities

Procure RDTs	Global Health Supply Chain Procurement and Supply Management (GHSC PSM) Malaria	\$1,250,000	Nationwide			Procure approximately 2,500,000 RDTs, to fill identified gaps and ensure that health facilities maintain capacity to test fevers and diagnose malaria cases.
Procure Drugs for Severe Malaria	Global Health Supply Chain Procurement and Supply Management (GHSC PSM) Malaria	\$571,500	Nationwide			Support the national injectable and rectal artesunate needs for severe malaria: procure approximately 150,000 vials of injectable artesunate, covering ~60% of the annual needs.

Subtotal : \$1,821,500

Case Management Implementation

Facility-based Case Management	PMI Impact Malaria	\$800,000	Nationwide			Support routine malaria-specific OTSS using the NMCP checklist to strengthen malaria diagnosis and treatment and provide in-service training for prescribers. Support will encourage the engagement of regional and district health management and supervision teams to conduct quarterly clinical OTSS visits at district hospitals and health centers, respectively. Provide support to ICD for implementation of integrated supportive supervision using ICD checklist.
Facility-based Case Management	G2G Ghana	\$200,000	Nationwide			Contribute along with MCH, FP, and HIV to GHS integrated supportive supervision (ISS) to implement a comprehensive care checklist including supply chain, management, quality assurance, etc. to improve case management throughout the Ghana health system.
Community-based Case Management	PMI Impact Malaria	\$1,000,000	Nationwide			Support routine malaria-specific OTSS using the NMCP checklist to strengthen malaria diagnosis and treatment and provide in-service training for prescribers. Support will encourage the engagement of district health management and supervision teams to conduct quarterly clinical OTSS visits at CHPS compounds. CHPS outreach activities to the community (house-to-house) will also be strengthened.

Community-based Case Management	G2G Ghana	\$200,000	Nationwide			Contribute along with MCH, FP, and HIV to GHS integrated supportive supervision (ISS) to implement a comprehensive care checklist including supply chain, management, quality assurance, etc. to improve case management throughout the Ghana health system.
Support Therapeutic Efficacy Study	TBD NMIMR	\$150,000	Nationwide			Provide direct support to NMIMR for the implementation of routine malaria drugs efficacy monitoring conducted every two years in application of the WHO protocol for drug efficacy monitoring. This funding will support the TES planned for CY 2022.
Other Case Management Implementation	G2G Ghana	\$300,000	Nationwide			Support GHS ICD to conduct laboratory OTSS and malaria diagnostic training-of-trainers on a quarterly basis. Funds will support the continued quality improvement of malaria microscopy, RDT use and scale-up, and coordination between laboratory staff and prescribers.
Subtotal : \$2,650,000						
SBC						
SBC Implementation for Case Management	TBD Ghana Bilateral	\$300,000	Nationwide			Funding will support capacity building of NMCP, HPD, RHMTs and DHMTs to deliver appropriate SBC interventions for case management, and support attendance in SBC-specific trainings or conferences. Support will include below the line activities through the malaria community engagement program as well as above the line mass media malaria activities.
SBC Implementation for Case Management	G2G Ghana	\$150,000	Nationwide			Support the GHS Health Promotion Division (HPD) to strengthen malaria SBC activities through expansion of malaria community engagement activities. Support will engage CHPS nurses, health officers, and health volunteers to engage with communities to promote malaria care-seeking behaviors.
Subtotal : \$150,000						
Total : \$4,921,500						

SUPPLY CHAIN

In-Country Supply Chain

Warehousing and Distribution	Global Health Supply Chain Procurement and Supply Management (GHSC PSM) Malaria	\$300,000	Nationwide			Central warehousing and transportation of malaria commodities from central to regional levels.
Pharmaceutical Management Systems Strengthening	Global Health Supply Chain Procurement and Supply Management (GHSC PSM) Malaria	\$900,000	Nationwide			Provide technical assistance for strengthening logistics, warehousing, and distribution to improve availability of malaria commodities, in accordance with the national Supply Chain Master Plan. Activities will focus on addressing weaknesses in supply management, forecasting, transportation, and reporting systems. Support EUV surveys to monitor the status of facility-level commodity stock levels including both WHO pre-qualified and locally procured ACTs and identify ongoing programmatic successes and challenges. Technical assistance will also address the local procurement of non-quality assured anti-malarial drugs by health facilities and regional health and RMS staff.
Warehousing and Distribution	Global Health Supply Chain Procurement and Supply Management (GHSC PSM) Malaria	\$200,000		To Be Determined		Support Last mile distribution in coordination with GF, covering at least three regions
Ensuring drug and other health product quality	Promoting the Quality of Medicines Plus (PQM+)	\$150,000	Nationwide			Provide support for continued strengthening of the GH-FDA's capacity to effectively monitor quality of anti-malarial drugs available in Ghana. Support to GH-FDA to monitor and regulate locally procured non-WHO pre-qualified antimalarial drugs including batch testing of Ghana manufactured ACTs, SP and severe malaria drugs including support to increase regulation and removal of drugs that fail quality testing. GH-FDA will be supported PMI will support the GH-FDA to build the capacity of local manufacturers to meet GMP and WHO pre-qualification standards.

Subtotal : \$1,550,000

Total : \$1,550,000

MONITORING, EVALUATION & RESEARCH

Surveillance, Monitoring, and Evaluation

Support Routine Surveillance	TBD Ghana Bilateral	\$750,000	Nationwide			Provide technical assistance and support to improve data quality. Ensure development and use of sub-district and facility-specific dashboards. Support the Frontline Field Epidemiology and Laboratory Training Program (FELTP) to train district, sub-district, and health center health care workers in data analysis and use.
Support Routine Surveillance	TBD Ghana Bilateral	\$300,000	Nationwide			Support USAID Ghana mission Monitoring and Evaluation (M&E) project to provide data for PPR and other USAID reporting requirements.
Support Routine Surveillance	G2G Ghana	\$200,000	Nationwide			Support the implementation of e-tracker through the PPME to strengthen and improve malaria routine data, analysis, and evidence based decision making.
Support to FETP	CDC IAA	\$120,000	Nationwide			Support long-term training of individuals to build capacity at the NMCP or GHS in epidemiology, M&E, or other malaria program management functions as needed through the Field Epidemiologic and Laboratory Training Program, which was established with USG support at the University of Ghana's School of Public Health in collaboration with the GHS. One trainee to conduct an evaluation of SMC.
Other SM&E Implementation	Malaria Data Integration and Visualization (M-DIVE)	\$202,500	Nationwide			Support for development and use of the MDIVE platform. (0.75% of the country budget).
Other SM&E Implementation	TBD Central Mechanism	\$202,500	Nationwide			Support PMI HQ data strengthening effort for digital diagnostics. (0.75% of planning budget).

Subtotal : \$1,775,000

Operational Research

Other SM&E Implementation	PMI VectorLink	\$42,072		Ashanti, Greater Accra, Northern, Western	Support the NMCP for an assessment of the efficacy of ongoing larval source management in selected urban and peri-urban areas.
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Subtotal : \$42,072

Total : \$1,817,072

OTHER HEALTH SYSTEMS STRENGTHENING

Support to Peace Corps	Peace Corps	\$30,000	Nationwide		Support Peace Corps volunteers based in Ghana to receive small grants from PMI to engage in malaria control and prevention activities, such as community mobilization for SBCC, ITN distribution, and (as needed) operational research.
Other Health Systems Strengthening Implementation	G2G Ghana	\$300,000	Nationwide		Continue support for NHIA to conduct clinical audits to improve treatment standards and the quality of service provision among accredited providers, to ensure adherence to standard protocols, and to check against fraud and abuse. Clinical OTSS teams will join the clinical audit teams to learn first-hand how the clinical audits are conducted so as to improve the OTSS teams' capacity to audit cases treated during the intervening period between two clinical visits. Specific activities will include targeted mentorship and additional supervisory and on-the-job training for poorly performing facilities.

Subtotal : \$330,000

Total : \$330,000

STAFFING & ADMINISTRATION

SM&E-Related CDC TDY	CDC IAA	\$10,000				Support for a technical assistance visit from the CDC PMI M&E team. Technical assistance will include working with the NMCP to support strengthening M&E and health management information system activities.
USAID In-Country Staffing and Administration: Staffing	USAID	\$771,000				Salaries, benefits, and administrative-related costs for in-country PMI staff, including the USAID Resident Advisor and Foreign Service Nationals, as well as office equipment and supplies.
USAID In-Country Staffing and Administration: Administration	USAID	\$540,000				Support administrative and oversight costs in support of PMI activities in Ghana and support of activities as needed by the USAID Mission.
CDC In-Country Staffing and Administration	CDC IAA	\$420,000				Salary, benefits, and administrative-related costs of in-country PMI CDC resident advisor, and support of activities as needed by the USAID Mission.
Subtotal : \$1,741,000						
Total : \$1,741,000						
GRAND TOTAL:	\$	27,000,000				