

**USAID/PAHO Project for the Prevention and Control of Antimalarial Resistance in the Amazon:
Proposed Work Plan for the period October 2002 through September 2003--
Country Work Plan, Suriname**

Intermediate Result 1 – Reliable and standardized malaria drug efficacy information available. **Indicators:** 1) Number of target countries that have selected an adequate number of

Activities	Tasks	Staff, Other Human Resources, and Other Inputs	Product	Month	Remarks
A.1.1 Establish a regional network for surveillance of drug resistance and monitoring of activities under the coordination of PAHO	1. Participate in Annual meeting by 3 representatives	PAHO focal points	Work plans and results 2002 evaluated, recommendations and strategies determined		Cost included in IR 3.1

Activities	Tasks	Staff, Other Human Resources, and Other Inputs	Product	Month	Remarks
A.1.2 Consolidate national network for surveillance of antimalaria drug resistance	1. Ravreda National working group meetings	AntimalariaProgram (Bureau of Public Health) (MOH), Medical Mission, PAHO, project coordinator	National work plans and results 2002 evaluated, recommendations and strategies determined		No cost incurred (all committee members in Paramaribo)
	2. Assign project coordinator and project assistant (100%)	Project coordinator (50%) and full time assistant	Technical and logistical coordination and monitoring of studies, pilot experiences , workshops and meetings		
	3. Hire two field supervisors 2x\$650 per monthX12, 100%	project coordinator	Field work of trials conducted according to protocol and surveillance network strengthened		
	4. Purchase lab equipment Upgrade lab facilities, , procure 6 microscopes	Medical Mission, AntimalariaProgram (Bureau of Public Health), PAHO	Laboratory diagnosis performed according to standards	03-Feb	
	5. Conduct five drug resistance trials at three sentinel sites. (Two trials is going on currently and 3 are planed for 2003). The average cost for one trial : microscopy \$1200, drugs \$300, fieldworkers \$6000, travel\$1500 total for one trial \$9000. Total for all 4 trials 4x\$9000=\$36000	PAHO focal point, project coordinator, field supervisors	Fieldworkers, field microscopists, travel etc. paid and studies completed according to protocol	Jan /03 - sept/03	
	6. Strength national capacity in quality control of parasitological diagnosis; Per diem for expert in microscopy (3 weeks), materials	Paho focal point, project coordinator	Laboratory diagnosis performed according to standards	03-Mar	
	7. Supervision of the efficacy studies in sentinel sites;Visits to sentinel sites and health facilities (1 visit / month)	Project coordinator	Field work of trials conducted according to protocol and surveillance network strengthened	Jan /03 - sept/03	
	8. Conduct one study about patient adherence (new first line malaria treatment);Planing meeting, Design of instruments, field workers training, 50 patients follow up, supervision visits	Project coordinator, PAHO, Medical Mission	Determinants and frequency of poor adherence to new treatment determined	03-Jun	
	9. Introduce the detection of therapeutic failure in the surveillance system. / Pilot experience / Impact evaluation of the introduction of new drug; Visits to 10 health posts, training at local level, 3 workshops at local level	Project coordinator, Medical Mission, AntimalariaProgram (Bureau of Public Health)	Passive surveillance system operating in pilot area. Information about frequency of therapeutic failure before and after introduction of new treatment, available.	Feb/03 - sept/03	
	10. Genotyping to establish differences between reinfection and recrudescence and identification of molecular resistance patthens; Reagents and others materials	Paho focal point, national molecular biologist	Information available on parasite strains distribution in Suriname	Jun/03 - aug/03	

Activities	Tasks	Staff, Other Human Resources, and Other Inputs	Product	Month	Remarks
A.1.3 Provide training to improve national capability to conduct the surveillance network of antimalarial drug resistance	1. Workshops to intruduce the new treatment and pasive surveillancce strategy	Medical mission, AntimalariaProgram (Bureau of Public Health), PAHO	New antimalaria treatment protocol operational	03-Aug	
	2. Training and evaluation in microscopy for microscopists and training in thick film related procedures for health workers;25 microscopist and health assistants.	PAHO focal point, project coordinator	Laboratory diagnosis performed according to standards	03-Mar	
A.1.4 Study findings reviewed, alternative treatments evaluated, and consensus on appropriate treatment protocols reached.	1. Analyse and publish results;Procure hardware and software and hire data tpeyst.	PAHO focal point, Project coordinator	Data available for Ravreda network		
	2. National consensus meeting to didcuss results and modify drug policy; Travel , per diem for participants, facilities, copy cost and materials	National Malaria Board, PAHO	Recommendations for Ministry of Health about antimalarial drug policy	03-May	
Subtotal IR1.					
13% PSC					
Subtotal IR1. Plus PSC					

Activities	Tasks	Staff, Other Human Resources, and Other Inputs	Product	Month	Remarks
Intermediate Result 2. Tools and approaches developed, adapted, tested and disseminated. Indicator: Number of sites identified in Suriname with trials of rapid tests for malaria					
A 2 Evaluate the cost-effectiveness of malaria rapid tests	A 2.1 Procure 13000 malaria rapid tests	project coordinator	rapid tests procured	03-Jan	
	A 2.2 Implementation of rapid test in the field using algorithm in area with presumptive treatment (3 health post without parasitological diagnosis); Protocol and algorithm design, Implementation, field workers training, implementation	Project coordinator, Medical Mission, Antimalaria Program (Bureau of Public Health)	Field evaluation completed	Feb/03 - jun/03	
	A 2.3 Analyze data and organize local training sessions to introduce and implement national guidelines for use of malaria rapid test	Project coordinator, Medical Mission, Antimalaria Program (Bureau of Public Health)	Conclusions about cost-effectiveness of rapid test use vs presumptive treatment. National guidelines for use of malaria rapid test disseminated		
Subtotal					
13% PSC					
Subtotal IR1. Plus PSC					

Activities	Tasks	Staff, Other Human Resources, and Other Inputs	Product	Month	Remarks
Intermediate Result.3: Partnerships to improve malaria control in the sub-region enhanced. Indicator: Number of surveillance network of anti-malarial drug resistance activities carried					
A. 3.1 Subregional dialogue and planing for prevention and containment antimalarial drug resistance facilitated	A 3.1. Participate in Annual meeting with 3 representatives	PAHO focal point, Project coordinator, representative of National Malaria Board	Work plans and results 2002 evaluated, recommendations drafted	03-Mar	
A.3.2 South to south technical assistance and training activities executed	A 3.2 Provide training of two nationals in PCR techniques in regional centre	PAHO focal point, Project coordinator	Advanced lab diagnostic capacity in Suriname improved		
	A 3.3 Visit to regional centres in Venezuela , Cayenne and Brazil	PAHO focal point, Project coordinator	Information exchanged, capacity strengthened		
	A 3.4 Enable participation of one expert in an international conference on Malaria drug resistance	PAHO focal point, Project coordinator	Information exchanged, capacity strengghened		
	A 3.5 Enable participation of one national in regional entomology workshop	PAHO focal point, AntimalariaProgram	Capacity for malaria entomology strengthened		
	A 3.6 Enable participation of one expert in Technical Meeting to discuss the WHO protocols	PAHO focal point, Project coordinator	Information exchanged, capacity strengthened		
	A 3.7 Enable participation of two nationals in training workshops on EpiInfo, cost effectiveness analysis and data analysis	PAHO focal point	Data analaysis synchronized among Ravreda countries		
	A.3.8 Organized postgraduate course in malariology for a official doctor from Medical Mission.	PAHO focal point, Medical Mission			
Subtotal					
13% PSC					
Subtotal IR1. Plus PSC					
Total IR1+IR2+IR3					
13% PSC					
TOTAL SURINAME PLUS PSC					