

**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--  
Regional Work Plan**

**Intermediate Result 1** - Reliable and standardized malaria drug efficacy information available. **Process Indicators:** a) Percent of sentinel sites where data collection has been initiated, b) Percent of functioning sentinel sites that comply with quality control procedures, as defined by country protocol. **Milestones:** a) Studies sites have been identified; b) Study protocol has been prepared and approved by Ethical Committee; c) Surveillance site staff have been trained in use of the study protocol; d) National level reference laboratory has been identified.

Activities	Tasks	Staff and Other Human Resources	Product	Month/ Year	Remarks
A1.1. Establish a regional network for surveillance of drug resistance and monitoring of activities under the coordination of PAHO.	1. Project technical coordination	Gusmao (*) Carter (*) Bretas (*)	Work plan monitored, participating countries assisted, inter-country discussions facilitated, technical support for national projects provided	Oct/02 - sept/03	Technical coordinator contract
		Country Focal point and project support (*)		Oct/02 - sept/03	
	2. Support in project management, monitoring and planning	Requejo (*) Salvatierra Gonzalez (*) Administ/finance staff (*)	Technical support provided, monitoring, planning and progress reports elaborated	Oct/02 - sept/03	
	3. Participate in Steering Committee meetings, and an AMI Annual meeting	Gusmao, Carter, Bretas Montoya, Requejo	Work plans 2002 evaluated, Partnership roles and responsibilities for 2003 established, and PAHO/USAID country coordination done.	Mar/03 Sep/03	Cost included in A.3.1
	4. First Technical Advisory Group (TAG) Meeting	Carter, Montoya Bretas Requejo	Strategy and the course of the project reviewed	Sep 03	Cost included in A.3.1
	5. Contract a consultant to plan and establish a data base of the efficacy treatment studies.	Carter, Montoya Bretas Mancero	Data base available on PAHO and AMI web site	Oct/02 - jul/03	CDC - Partnerships - SHA links with other institutions. With
	(*) PAHO Staff salaries (Regional and Country Offices) Note: Special Programme for Health Analysis of PAHO.				

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	6. Regional data collection, analysis and dissemination of the results of efficacy drug studies.	Carter, Montoya Mancero Stephens (*) Requejo	Results disseminated	Oct/02 - sept/03	
	7. Support the adaptation o protocols for multi- center/ multi country drug efficacy studies.	Carter, Montoya	Protocols adapted	Oct/02 - Dic/02	In coordination with Ruebush/ NAMRID.
	8. To review and select research on socio-anthropological and operational topics like migrations, CAP, patient compliance, use of mosquito nets, etc	Carter, Montoya Bretas Yadón (*)	Research studies proposal to be paid by the project, selected by selection committee.	Oct/02 - Mar/03	Selection team will be convene Roll Back Malaria funds
	9. Support the establishment of and supervise regional quality control program for laboratories	Staff and other external human resources Gabastou (*)	Subregional laboratories established and supporting quality controls for in vivo studies.	Oct/02 - Jun/03	Complement with A1.2.3.
	10. Establish a antimalarial drugs control quality system PAHO/USP : Two days GLP course, including GMP for sampling, data collection and standard operating procedures.	Carter Parissi (*) Montoya	Reference national laboratories in countries conforming with PAHO and USP a quality control net.	May 03 - Jun 03	Complement A.3.3 with PAHO and USP in conjunction

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A.1.2 Establish national sentinel surveillance networks with quality control in each target country to assess the efficacy of antimalarial drugs.	1. Support national coordinating technical committees (NCTC)	Carter, Montoya Bretas  External experts (24 visits tec, 1 laptop)	National coordinating technical committees supported.	Oct/02 - sept/03	PAHO's costs included in A.1.1.1
	2. Supervise the application of the research WHO/PAHO standardized protocol in sentinel sites.		The protocols have been implemented, disseminated and its use in each country.	Oct/02 - sept/03	
	3. Assist the operation of national quality control program.		Quality control program in place in each country.	Oct/02 - sept/03	Complement A.1.1.9
	4. Periodic technical monitoring of sentinel sites functioning as part of the surveillance network quality control with national counterparts.	Carter, Montoya Bretas	Trip reports	Oct/02 - sept/03	PAHO's costs included in A.1.1.1
	5. Ensure that all study protocols and the information centers have the approval of National Ethical Committees.	Carter, Montoya Bretas	Studies implemented under Helsinki Guidelines. List of National Ethical Committees by country.	Oct/02 - sept/03	PAHO's costs included in A.1.1.1 Other costs included en A1.2.1
	6. Support and participate in planning meetings/sessions at national level to prioritize and get ready for Year 3 activities. (Include travel cost for technical visits from any regional staff member).	Carter, Montoya Requejo	Year 2 Workplans Meeting report	Ago/03	
A.1.3 Provide training to improve national capability to conduct the surveillance network of antimalarial drug	1. Support identification training needs of the personal involved in RAVREDA activities by required areas.	Gusmao, Carter Montoya Bretas	Training needs reported by country.	Oct/02 - Mar/03	PAHO's costs included in A.1.1.1 Other costs included en A1.2.1

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resistance in all target countries.	2. Develop short and long term training programs to strengthen required capabilities of the personal involved in RAVREDA.	Carter Montoya Bretas	Training program developed.	Oct/02 - Jan/03	Cost included in A.3.3
	3. Provide training in developing infrastructure, organization, implementation and monitoring of RAVREDA and sentinel sites.	Montoya Carter Bretas	Staff trained. Quarterly training activities summary es course objective and summary, agenda, and participants list. .	Oct/02 - Mar/03	CDC and PAHO in conjunction with Ruebush, Watkins and Ringwald. Country funds will defray cost of national participants.
	4.Support training for selected staff to perform the susceptibility test (ej.: in vitro).	Montoya Carter Bretas	Staff trained. Quarterly training activities summary.	Oct/02 - sept/03	
	5. Disseminate training materials, manuals, norms, and guidelines for diagnosis, video materials, web page, etc. (This task is complementary with these included in A.1.1.5)	Carter, K. Montoya Bretas Stephens Requejo Equipment and materials (digital camera)	Material available at country level. Web page developed.	Oct/02 - Jun/03	PAHO's costs included in A.1.1.1 A1.1.2 A.1.1.6
	6. Support training in collection, data entry, analysis, interpretation and use of the data coming from the standardized protocols	Montoya Carter Bretas	Staff trained. Quarterly training activities summary. Workshops in EPI info and data analysis (2)	Oct/02 - sept/03	EPINFO Ruebush -Mac. Arthur. Activity developed mainly by CDC, w/PAHO support. Cost in A.3.3
	7. Develop and support the implementation of permanent system for performance evaluation of participating laboratories in the anti-malarial drug resistance testing (sample production, distribution and analysis).	Carter, K. Montoya Gabastou (HSE)	Performance evaluation plan available. Information available on lab quality control.	Oct/02 - sept/03	PAHO with Olliario and Ringwald collaboration

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A.1.4. Study findings reviewed, alternative treatments evaluated, and consensus on appropriate treatment protocols reached.	1. Support in countries data collection and analysis, including baseline data and trends, evaluate drug efficacy, and make changes in Tx, if	Montoya Carter Bretas Technical visits	Report on drug efficacy studies.	Feb/02 - sept/03	PAHO's costs included in A.1.1.1 Other costs included en A1.2.1
	2. Support development and approve research of alternative drugs	Montoya Carter Bretas	Alternative protocols reviewed and tested.	Feb/02 - sept/03	

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<b>Intermediate Result 2. Tools and approaches developed, adapted, tested and disseminated. Indicator: Number of target countries with trials of rapid tests for malaria diagnosis initiated.</b>						
A2.1.Rapid tests for malaria diagnosis evaluated in selected sites and appraisal of their cost- effectiveness evaluated	1. Support identification of sites where use of rapid tests is considered appropriate	Montoya Carter Bretas Technical visits	List of sites selected			PAHO's costs included in A.1.1.1 Other costs included en A1.2.1
	2. Assist in the design or adaptation of protocols for rapid test trials, and support implementation of rapid test trials.	Montoya Carter Bretas Yadón	Protocols developed and implemented	Oct/02	- Jul/03	Included A.1.2.3. In collaboration with CDC

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<b>Intermediate Result 3. Partnerships to improve malaria control in the sub-region enhance. Indicator: Number of surveillance network of anti-malarial drug resistance activities carried out with technical assistance or exchanges between target countries.</b>					
A3.1 Subregional dialogue and planning for prevention and containment anti-malaria drug resistance facilitated.	1. Participate and/or support AMI technical coordinating meeting, under taking of project seminars and/or working groups, periodical meetings, and support documentation (1AMI annual meeting, 3TCommittees, 1 TAG)	Carter, Montoya Bretas Requejo	# workshops Monitoring reports	Mar/03 - Sep/03	Includes A.1.1.3 and A.1.1.4 PAHO's costs included in A.1.1.1 and A.1.1.2
A3.2 Centers of excellence for regional training identified and supported.	1.Support centers of excellence in South America that offer training programs (activities include in A1.2 y A1.3. AMI technical coordinating meeting).	Montoya Carter Bretas	List of centers of excellence areas of interest.		PAHO's costs included in A.1.1.1
A3.3 South-to-south technical assistance and training activities executed.	1. Support South to South technical assistance (coordinate with countries and partners the realization of workshops, and participation of PAHO staff in workshops) and in training activities. 4 Workshops : entomology, data analysis, EPI info, Course of Scientific Data Management for Antimalarial Drugs Testing	Carter Montoya Parisi Requejo National Institutions	# joint activities undertaken	Oct/02 - sept/03	CDC, PAHO and USP in conjunction PAHO's costs included in A.1.1.1 and A.1.1.2