

## Workshop Report: Coartem Pharmaceutical Management - Angola, May 2007

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## **About RPM Plus**

RPM Plus works in more than 20 developing and transitional countries to provide technical assistance to strengthen drug and health commodity management systems. The program offers technical guidance and assists in strategy development and program implementation both in improving the availability of health commodities—pharmaceuticals, vaccines, supplies, and basic medical equipment—of assured quality for maternal and child health, HIV/AIDS, infectious diseases, and family planning and in promoting the appropriate use of health commodities in the public and private sectors.

## **Abstract**

In support of the President Malaria Initiative in Angola, RPM Plus worked with the National Program for Essential Medicines, the National Malaria Control Program and The MENTOR Initiative to adapt the Essential Drug Program approach and tools for Coartem management. The related training was jointly organized with partners to develop a training of trainers' workshop.

## **Recommended Citation**

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## **Key Words**

Malaria, PMI, Angola, ACT, Coartem

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## ACRONYMS

ACTs	artemisinin-based combination therapy
EU	European Union
GFATM	Global Fund to Fight AIDS, Tuberculosis and Malaria
ITN	insecticide-treated net
IRS	indoor residual spraying
MENTOR	Malaria Emergency Technical and Operational Response
MOH	Ministry of Health
MSH	Management Sciences for Health
NMCP	National Malaria Control Program
NPO	National Program Officer (WHO)
PASS	Programa de Apoio ao Sector de Saúde
PMI	President's Malaria Initiative
PNCM	<i>Programa Nacional de Controlo da Malária</i> (National Malaria Control Program)
PNME	<i>Programa Nacional de Medicamentos Essenciais</i> (National Programme for Essential Medicines)
RPM Plus	Rational Pharmaceutical Management Plus Program
TOT	training of trainers
WHO	World Health Organization
USAID	United States Agency for International Development

## **BACKGROUND**

During 2006 RPM Plus, through the President's Malaria Initiative (PMI), began collaboration with the National Program for Essential Medicines (PNME), the National Program for Malaria Control (PNCM), and The MENTOR Initiative to evaluate technical assistance needed in the area of pharmaceutical management for improving malaria control in Angola. The partners agreed that, across the board, good pharmaceutical management practices were lacking at health centers and provincial warehouses. Since Coartem was introduced into Angola, it has been distributed to nine provinces and specific educational and operational materials were developed followed by a practical workshop which took place in January 2007 in the Province of Huambo. Following this activity and, in order to maximize use of resources, it was decided to conduct a Training of Trainers (TOT) Workshop in order to scale up these issues to the other 17 provinces in the country.

The following materials were prepared in Portuguese for the first workshop and were subsequently updated by RPM Plus using experiences gained during the training:

- Manual: *Managing Coartem at the Health Center*
- Manual: *Managing Coartem at the Provincial Warehouse*
- Manual: *Monitoring and Supervision of Coartem* with accompanying slides
- Participant Workshop Binder: *Managing Coartem in the Health Center and Provincial Warehouse* with accompanying slides

A training guide, *Manual: Managing Coartem for Trainers*, was prepared in Portuguese by RPM Plus based on both the previous workshop experiences and also on the forms and reports standardized by PNME in agreement with the PNCM.

The new Manual was used in a Training of Trainer's workshop which took place in Luanda, Angola, 15-18 May, 2007 and is reported here. See Annex 1 for the Program (in Portuguese).

## **Methodology**

The workshop was carried out as follows:

- Small didactic presentations of 15-20 minutes using slides and demonstrations
- One or more practical exercises for each topic (see "Topics covered" below for more information)
- Preparation of documents by participants for field visit
- Field visit to health centers
- Small group presentations in plenary of findings from field visit
- Short oral discussions during the activities concerning training implementation issues for future trainers

## **Topics Covered**

The following topics were covered including nine topics in good pharmaceutical management and related aspects for training of trainers and monitoring and supervision:

1. General introduction to pharmaceutical management

- Levels of the medicine supply system in Angola
  - Elements of the pharmaceutical management cycle: selection, procurement, distribution, rational use, information system
  - How to organize and conserve quality of medicines in the storeroom
  - Practice: how to evaluate their storerooms, which activities they will carry out to improve problems, what potential resources they will need
2. Receiving medicines
- Confirming quantities received
  - Documenting errors in quantities
  - Watching for quality problems including short expiry dates
  - Practice filling out the receipt form and error report
3. Managing stocks
- Maintaining a stock card for each medicine
  - How to conduct an inventory
  - How to avoid overstocking and understocking
  - How to return overstocked medicines
  - What to do with those unfit to give to patients
  - Practice filling out stock cards once Coartem quantities are received by storeroom and when dispensing to patients
4. Ordering medicines
- How to calculate and order monthly needs for health center
  - How to calculate and order quarterly needs for the provincial warehouse
  - Practice calculating quantities to order
  - Practice filling out order form including: quantities received last period, quantities dispensed last period, existing stock and quantities to order
5. Rational Use of Medicines
- What is rational use of medicines
  - What is irrational use of medicines
  - How to work with the patient to gain conformity in medicine taking
  - Interpreting the doctor's prescription for dispensing correct drug and dosage to patient
  - Practice using sample prescriptions to choose correct drug and dosage for patient's weight/age
6. Dispensing Medicines
- Packaging and labeling medicines
  - Dispensing medicines to patients
  - Using the national malaria treatment scheme to verify that patients receive the correct medicine and dosage
  - How to work with patient so that Coartem treatment is understood and what actions the patient must take to be cured
  - Practice: small group role-playing whereby patient is diagnosed and treated by prescriber and dispenser and small groups discuss actions of the two health providers and how the patient was received

7. Documenting use of medicines
  - How to document use of medicines in health centers
  - Practice filling out the daily and weekly medicine registers
8. Archiving documents
  - Importance of archiving all forms and documents used by health centers and provincial warehouses
  - How best to archive the documents
9. Monitoring and Supervision of Coartem pharmaceutical management
  - Objectives of monitoring: assuring quantities ordered and received are adequate; proper documentation is occurring
  - Objectives of supervising pharmaceutical management: indicate where technical assistance is needed for staff in the health center; provide opportunity to capacitate staff needing more training
  - Presentation of checklist for monitoring and supervising health centers
  - Practice using the guide to the checklist which tells supervisors what actions they must take for each element of the checklist
10. Training of trainers aspects
  - Opportune short discussions carried out during all activities
  - A final open discussion focused on a step-by-step approach to for following correct training procedures of Coartem management

## **Workshop Participants**

Forty-five persons were in attendance including:

- PNCM provincial supervisors from the nine provinces currently receiving and using Coartem
- PNME provincial supervisors from all 18 provinces
- WHO National Professional Officers (NPO) from 5 provinces
- Relevant persons responsible for diagnosing, dispensing and treating Malaria patients (physicians and municipal supervisors)
- Persons from partner organizations including: CDC, PNCM, PNME, USAID/PMI and NGOs

## **Facilitation and Logistics Support**

Relying on the exceptional support and partnership established with the MENTOR Initiative, RPM Plus facilitators conducted the didactic and practice sessions during the workshop including the field visits. RPM Plus and MENTOR provided financial support for the workshop through USAID/PMI resources to cover costs of producing materials, workshop venue, training equipment, participant transportation from different localities to Luanda and participant per diems.

Representatives from the PNME and PNCM provided answers to questions raised by participants about national policies for health services structure and organization, handling

medicines, forms and report standardization, malaria treatment and monitoring and supervision activities.

The MENTOR Initiative worked with PNCM, PNME and RPM Plus to select participants, photocopy and bind workshop materials, arrange transportation for facilitators and participants, organize the workshop venue and work with local authorities to set up the field visits to three health centers. MENTOR, WHO, UNDP and the Essential Health Services Program provided transportation for the field visits.

### **Participant Evaluations**

Of the 45 participants attending the workshop, an average of 37 participants responded to the evaluation questionnaires. The questionnaires asked that participants use a scale of 1 to 5 to rate each session with 5 meaning *excellent*, 4 *very good*, 3 *good*, 2 *minimally adequate* and 1 *inadequate*. From the table in Annex 2 it is clear that participants rated a large majority of topics and practical exercises as good to excellent. Participants were asked to make general comments and the following were received:

- Workshop was immensely good!
- Add a topic such as: pharmacology of Coartem.
- I had the opportunity to find out about Coartem experiences in others provinces.
- This workshop was simple and objective.
- Medicine procurement would be a good topic to add.
- The workshop is essential for our health system because health facility workers don't have this kind of drug management organization (proposed in workshop) and they need to give feedback to MoH and the donors.
- Congratulations to the trainers that were clear and objective in their presentations, giving us motivation to do the same in our provinces.
- The workshop should be done for other programs and invite the directors of health facilities to participate.
- All the forms should be sent to the provinces.
- To improve the workshop the PNCM and PNME should prepare together only one form to be used in the supervision process (currently they use different forms with some similar activities).

### **Follow-on Activities**

As was evident from the participant evaluations, the workshop was well received by the partners and participants alike and all agreed that the materials were appropriate and practical for future trainings.

The PNME national representative discussed the following next steps with RPM Plus:

1. Review, update and publish the final versions of the materials
  - RPM Plus will review and finalize materials based on the May workshop feedback  
*Expected completion: June 2007*
  - Publication will proceed at that time by PNME and PNCM with support from RPM Plus and partners as needed
2. Roll out Coartem pharmaceutical management trainings to two different provinces to be carried out by Angolan PNME provincial staff who were trained at the workshop

- PNME will select appropriate persons to facilitate the trainings and persons who will be trained *Expected date: July 2007*
  - RPM Plus will supervise the trainings *Expected date: July 2007*
  - Beyond the next two workshops RPM Plus will assist the PNME as it organizes other Coartem pharmaceutical management workshops to cover all provinces by promoting use of the same methodology and sustainability of the trainings  
*Expected date: ongoing*
3. Support the provincial trainings currently in progress that are organized and facilitated by PNME and the European Union (EU) on the essential medicines procedures and the which are based on the clinical aspects of malaria treatment as follows:
- RPM Plus will draft a one hour presentation concerning ACT management topics (based on the Coartem workshop experience) to be added to the PNCM/EU training materials. *Expected date: June 2007*
  - Re-evaluate with partners the objectives, methodology, and complete materials needed in order to support, improve and follow-up these training activities  
*Expected date: ongoing*
4. Plan the support for Coartem pharmaceutical management training scale up with partners with RPM Plus' role more focused on insuring the quality of the subsequent training sessions provided by the trainers and supporting partners in following up on tool utilization at the health facilities and warehouses. Tool utilization support will provide assistance to country PMI partners for the integration of Coartem consumption data into the overall health information management system.
5. Check to see that provincial partners are organizing follow up monitoring visits to support health facility and provincial warehouse staffs in using the new procedures and tools for inventory management thereby promoting availability of Coartem.

## ANNEX 1. COURSE AGENDA

### Programa: Gestão e Controlo de Coartem - Treinamento para Treinadores Luanda, Angola - 15, 16, 17 and 18 de Maio de 2007

1º Dia	Tópico	Facilitador
08:30 – 08:45	Abertura	Equipe organizadora Daniel Antonio (PNME) Nilton Saraiva (PNCM) Jules Mihigo (CDC) Bill Cummings (ESSO)
08:45 – 09:15	Apresentação dos participantes e facilitadores	Equipe organizadora Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
09:15 – 09:30	Introdução do material e metodologia	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
09:30 – 9:45	Programa Nacional de Controle da Malária	Nilton Saraiva (PNCM)
09:45 – 10:00	Regras Gerais de Gestão	Constancio João (PNME)
10:00 – 11:00	- aula prática	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
11:00 – 11:15	Recepção de Medicamentos	Luis Gustavo do Valle Bastos
11:00 – 12:30	- aula prática: Guia de Remessa e Relatório de Ocorrência	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
12:30 – 13:30	<i>Almoço</i>	
13:30 – 13:45	Gestão de Stock	Jorge Luiz da Rocha
13:45 – 14:30	- aula prática: Ficha de Stock	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
14:30 – 15:15	Requisição Mensal e Trimestral	Luis Gustavo do Valle Bastos
15:15 – 16:30	- aula prática: Requisição Mensal da Unidade Sanitária - aula prática: Balancete Trimestral e Requisição Trimestral de Depósito Provincial	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
	<i>Mini pausa – durante a aula prática acima</i>	
16:30 – 17:30	Revisão do material do 1º dia de treinamento Preenchimento do formulário de avaliação	Equipe organizadora Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
2º Dia	Tópico	Facilitador
08:30 – 08:45	Uso Racional dos Medicamentos e Receita Médica	Luis Gustavo do Valle Bastos
08:45 – 09:45	- aula prática: Receita Médica	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
09:45 – 10:00	Dispensa e Embalagem	Luis Gustavo do Valle Bastos

10:00 – 11:00	- aula prática: simulação	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
11:00 – 11:15	Registo Diário e Semanal de Consumo	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
11:00 – 12:00	- aula prática: Registo Diário de Unidade Sanitária - aula prática: Balanço Semanal	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
12:00 – 13:00	<i>Almoço</i>	
13:00 – 13:15	Documentação e Arquivo	Jorge Luiz da Rocha
13:15 – 13:45	- aula prática: Documentação e Arquivo	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
13:45 – 14:00	Introdução do trabalho de campo para uma visita a unidade sanitária ou ao depósito provincial e formação de pequenos grupos	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
14:00 – 15:30	Trabalho em grupo para a visita de campo: - preparação dos documentos para o grupo colher dados e/ou avaliar a gestão na unidade sanitária ou no depósito provincial	Equipe organizadora Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
15:30 – 15:45	<i>Mini pausa</i>	
15:45 – 17:30	Apresentação em plenário pelos grupos dos dados e instrumentos que usarão durante o trabalho de campo Revisão do material do 2º dia de treinamento Preenchimento do formulário de avaliação	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
<b>3º Dia</b>	<b>Tópico</b>	<b>Facilitador</b>
08:30 – 12:00	Visita de campo	Equipe organizadora
12:00 – 13:00	<i>Almoço</i>	
13:00 – 14:00	Preparação dos dados para apresentação em plenário	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
14:00 – 16:00	Apresentações de cada grupo e discussão em plenário	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
16:00 – 16:15	<i>Mini pausa</i>	
16:15 – 16:45	Continuação da apresentação dos grupos e discussão final em plenário	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
16:45 – 17:30	Revisão do material do 3º dia de treinamento Preenchimento do formulário de avaliação	Equipe organizadora Thomas Luis Gustavo do Valle Bastos

<b>4º Dia</b>	<b>Tópico</b>	<b>Facilitador</b>
08:30 – 08:45	Introdução do material e metodologia de monitorização e supervisão	Luis Gustavo do Valle Bastos
08:45 – 09:30	- aula prática: Guia para Monitorização e Supervisão do Sistema de Aprovisionamento	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
09:30 – 13:00	Introdução ao material para treinadores Discussão dos tópicos baseada no Manual do Participante	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
13:00 – 14:00	<i>Almoço</i>	
14:00 – 16:00	Continuação da discussão dos tópicos baseada no Manual do Participante	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
16:00 – 16:15	<i>Mini pausa</i>	
16:15 – 17:00	Revisão do material do 4º dia de treinamento Preenchimento do formulário de avaliação	Luis Gustavo do Valle Bastos Jorge Luiz da Rocha
17:00 – 17:30	Encerramento	Equipe organizadora Luis Gustavo do Valle Bastos Jorge Luiz da Rocha PNCM, PNME, MENTOR

## ANNEX 2: PARTICIPANT EVALUATIONS

Topic	No. Respondents	Rating of 3,4,5	Rating of 1,2
Introdução do material e metodologia	32	31	1
Programa Nacional de Controle da Malária	33	31	2
Regras Gerais de Gestão	34	32	2
- aula prática	35	33	2
Recepção de Medicamentos	34	33	1
- aula prática: Guia de Remessa e Relatório de Ocorrência	35	34	1
Gestão de Stock	36	34	2
- aula prática: Ficha de Stock	35	34	1
Requisição Mensal e Trimestral	37	35	2
- aula prática: Requisição Mensal da Unidade Sanitária	36	35	1
- aula prática: Balancete Trimestral e Requisição Trimestral de Depósito Provincial			
Revisão do material do 1º dia de treinamento	30	26	4
Uso Racional dos Medicamentos e Receita Médica	39	38	1
- aula prática: Receita Médica	37	36	1
Dispensa e Embalagem	39	38	1
- aula prática: simulação	Atividade não realizada		
Registo Diário e Semanal de Consumo	39	39	0
- aula prática: Registo Diário de Unidade Sanitária	38	38	0
- aula prática: Balanço Semanal			
Documentação e Arquivo	38	38	0
- aula prática: Documentação e Arquivo	37	37	0
Introdução do trabalho de campo para uma visita a unidade sanitária ou ao depósito provincial e formação de pequenos grupos	35	35	0
Trabalho em grupo para a visita de campo: - preparação dos documentos para o grupo colher dados e/ou avaliar a gestão na unidade sanitária ou no depósito provincial	34	34	0
Apresentação em plenário pelos grupos dos dados e instrumentos que usarão durante o trabalho de campo	35	35	0
Revisão do material do 2º dia de treinamento			
Visita de campo	42	42	0
Preparação dos dados para apresentação em plenário	43	41	2
Apresentações de cada grupo e discussão em plenário	42	42	0
Revisão do material do 3º dia de treinamento	41	41	0

Introdução do material e metodologia de monitorização e supervisão	37	37	0
- aula prática: Guia para Monitorização e Supervisão do Sistema de Aprovisionamento	38	38	0
Introdução ao material para treinadores Discussão dos tópicos baseada no Manual do Participante	37	37	0
Revisão do material do 4º dia de treinamento Preenchimento do formulário de avaliação	34	34	0

### Workshop Final Evaluations

O treinamento me deu conhecimento para realizar as atividades necessárias para uma boa gestão de Coartem	38	38	0
O treinamento me deu oportunidade para trocar idéias e conhecimento com os colegas	36	36	0
O conteúdo teórico foi útil e suficiente para o meu trabalho	37	37	0
As aulas práticas foram úteis e suficientes para o meu trabalho	37	37	0
Houve bom equilíbrio entre apresentações, discussões e práticas em pequenos grupos	37	37	0
A duração do treinamento foi suficiente	37	37	0
O material didático utilizado (manuais e apresentações) apresenta o conteúdo de forma clara e pode ser útil na minha prática diária	38	38	0

**ANNEX 3. PARTICIPANT LIST AND CONTACT INFORMATION**

**PARTICIPANTS CONTACT INFORMATION  
ACT MANAGEMENT TRAINING  
LUANDA, ANGOLA, MAY 15-18, 2007**

		<b>Name And Surname</b>	<b>Contact Information</b>	<b>Province</b>
1		Antonio Miguel Zangui	913581997	Provincial Supervisor, Essential Medicines  Kwanza Norte
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6		Francisco Lutete	923419021	Provincial Supervisor, Essential Medicines  Zaire
7		Agostinho Jacob	925129315	Supervisor, Essential Medicines  Malange
8		Marcelino Pereira Bravo	924399542	Malaria Supervisor  Malange
9		Adelino Ndombe		Kuando Kubango
10		Joao Ernesto		Kuando Kubango
11		Manuel Bernado Jorge	923960165	Assistant Medical Coordinator, MENTOR  Zaire

12		Francisco P. Torres Van - Dunem	924725262	Supervisor, Essential Medicines  Bengo
13		Andre Manuel Pedro	923440792	Malaria Supervisor  Bengo
14		Israel Alfredo	923909214	Malaria Supervisor  Bie
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24		Amandio Natito Bernardo	923631315	Malaria Supervisor  Huambo
25		Gomes Pinto Tchopilica	923454096	Supervisor, Essential Medicines  Luanda Sul
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33		Jose Domingos	923242539	Provincial Supervisor, Essential Medicines Benguela
34		Jhony Benicio Faustino Bumba	913170775	Supervisor, Essential Medicines Cabinda
35		Bernardo Muhongo Chissola	924607913	Provincial Supervisor, Essential Medicines Moxico

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## ANNEX 4. ILLUSTRATED TRAINING REPORT WITH PICTURES

### Training of Trainers in Managing Artemether-Lumefantrine by the U.S. President's Malaria Initiative, the National Program for Essential Medicines and the National Malaria Control Program with Support from MENTOR and Rational Pharmaceutical Management Plus

**DRAFT**

A training of trainers on artemisinin-based combination therapy (ACT) was held in Luanda, Angola from May 15-18, 2007. This brought together for the first time 9 provincial supervisors for malaria, 18 officers from the *Programa Nacional de Medicamentos Essenciais* (National Program for Essential Medicines) [PNME] and 9 malaria program officers from WHO with the National Malaria Control Program (NMCP), MENTOR and other national level partners such as Population Services International (PSI), the Angolan Armed Forces, the Essential Health Program/U.S. Agency for International Development (USAID), the U.S. Centers for Disease Control and Prevention (CDC), Rational Pharmaceutical Management Plus (RPM Plus)/MSH and USAID. The training reinforced participants' capacities in ordering, storing, distributing, and reporting. Attendees highly appreciated this crucial skill development and ability to interact among provinces and with the national authorities because of the issues of ACTs' short shelf life and the needed improvements for nationwide availability and utilization for ACTs.



Opening speech by Dr. Daniel Antonio, National Director for Medicines and Equipment, with Dr. Nilton Saraiva, NMCP Deputy Director, and Mr. William Cummings, Esso



Presentation on the malaria situation by Dr. Nilton, Deputy Coordinator, NMCP



Presentation on ACT management by Dr. Joao Constancio, National Logistician, PNME



Interaction between the participants and Dr. Jorge Luiz da Rocha, RPM Plus/MSH



Dr. Manuel Texeira, WHO Malaria National Program Officer and training of trainers' participant



During the training participants' site visit, a health agent takes a blood smear from a pregnant woman suspected to be infected with malaria



Dr. Luis Gustavo do Valle Bastos, training facilitator from RPM Plus/MSH, briefing the La Isla Health Center Manager for the training participants' practical exercise



Pharmaceutical management procedures and record keeping discussion between participants and staff of the Pharmacy at La Isla Health Center, Luanda



Patient and nurse interaction for a malaria checkup observed by training participants at La Isla Health Center



Dr. Francisco Telles, NMCP/Global Fund, presents a certificate after his speech for the training of trainers' official closing