

Quantification of Antiretrovirals, Republic of Namibia:

Trip Report

Management Sciences for Health
is a nonprofit organization
strengthening health programs worldwide.



This report was made possible through support provided by the U.S. Agency for International Development, under the terms of Cooperative Agreement Number HRN-A-00-00-00016-00. The opinions expressed herein are those of the author(s) and do not necessarily reflect the views of the U.S. Agency for International Development.

Akhlaghi, Laila

October 2005

Quantification of Antiretrovirals, Republic of Namibia: Trip Report

Laila Akhlaghi

October 2005

Rational Pharmaceutical Management Plus
Center for Pharmaceutical Management
Management Sciences for Health
4301 N. Fairfax Drive, Suite 400
Arlington, VA 22203
Phone: 703-524-6575
Fax: 703-524-7898
E-mail: rpmpplus@msh.org

This report was made possible through support provided by the U.S. Agency for International Development, under the terms of cooperative agreement number HRN-A-00-00-00016-00. The opinions expressed herein are those of the author(s) and do not necessarily reflect the views of the U.S. Agency for International Development.

About RPM Plus

The Rational Pharmaceutical Management Plus (RPM Plus) Program, funded by the U.S. Agency for International Development (cooperative agreement HRN-A-00-00-00016-00), works in more than 20 developing 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.

This document does not necessarily represent the views or opinions of USAID. It may be reproduced if credit is given to RPM Plus.

Recommended Citation

Akhlaghi, Laila. October 2005. *Quantification of Antiretrovirals, Republic of Namibia: Trip Report*. Submitted to the U.S. Agency for International Development by the Rational Pharmaceutical Management Plus Program. Arlington, VA: Management Sciences for Health.

Contents

Acronyms.....	v
Background.....	1
Purpose of Trip.....	1
Scope of Work.....	1
Activities.....	3
1. Attend Meetings.....	3
2. Quantification Exercise.....	3
3. Development of facility site quantification tool.....	3
4. Training CMS staff on Quantification.....	3
Collaborators and Partners.....	4
Next Steps.....	6
Immediate Follow-up Activities.....	6
Recommendations.....	6
Annex 1. Results of ARV Quantification Exercise.....	7

Acronyms

AIDS	Acquired Immune Deficiency Syndrome
ANC	Anti-natal Clinic
ART	Antiretroviral Therapy
ARVs	Antiretrovirals
CDC	Center for Disease Control and Prevention
CHS	Catholic Health Services
CMS	Central Medical Store
FHI	Family Health International
HIV	Human Immunodeficiency Virus
MIS	Management Information System
MoHSS	Ministry of Health and Social Services
MSH	Management Sciences for Health
NACOP	National AIDS Coordinating Program
NGO	Non Governmental Organization
PMTCT	Prevention of Mother to Child Transmission
PSN	Pharmacy Society of Namibia
RMS	Regional Medical Store
RPM Plus	Rational Pharmaceutical Management Plus Program
SO	Strategic Objective
SOW	Scope of Work
TA	Technical Assistance
USAID	United States Agency for International Development
VCT	Voluntary Counseling and Testing

Background

Management Sciences for Health (MSH)/Rational Pharmaceutical Management Plus (RPM Plus) Program has received funds from USAID/Washington under PMTCT funding to assist USAID Missions, cooperating agencies and countries to assess the capacity of the local government to meet drug and other health commodity needs in support of the launch and establishment of the national PMTCT and PMTCT-Plus programs. The pre-assessment will make preliminary determination on the availability of data and possible data sources to identify constraints and challenges, as well as options for improvements in support of introducing and expanding access to antiretroviral drugs (ARVs) and other PMTCT related health commodities. USAID is also providing field support to RPM Plus to strengthen the pharmaceutical management system, specifically in working with the MoHSS and the Central Medical Stores to build capacity for logistical systems and pharmaceutical management, including but not limited to forecasting, distribution channels and supply chains.

RPM Plus conducted a pre-assessment visit to Namibia in August 2003. During the visit, the team also discussed issues related to the indicator-based assessment of current pharmaceutical capabilities to support scale-up and expansion of PMTCT, PMTCT Plus and ART programs, scheduled for the last quarter of 2003. Prior to and during the visit, information was gathered to inform the development of methodology and instruments for the more detailed assessment. Data collected during the pre-assessment phase came from document review, meetings with key informants, and visits to selected sites, including Katutura and St. Mary's Hospitals. In keeping with the RPM Plus approach, the pre-assessment data collection followed the drug management cycle by obtaining information on policy and legal frameworks (including registration), selection, procurement, distribution, rational use, and management support systems (including information systems and human resources). Information was also obtained on the role of stakeholders.

Purpose of Trip

Laila Akhlaghi traveled to Windhoek, Namibia from October 11th to October 22nd, 2004 at the request of the USAID/Namibia Mission to facilitate and provide technical assistance on HIV/AIDS pharmaceutical quantification from the facility level to central level and train CMS staff on a pharmaceutical quantification and cost estimation tool, called Quantimed in support of the scale up of HIV/AIDS program.

Scope of Work

Scope for Laila Akhlaghi is as follows:

- Provide training to CMS and RPM Plus staff on Quantimed, a Pharmaceutical quantification tool
- Work with local staff to develop facility level quantification manual tools
- Participate in an arrival/departure debriefing for USAID/Namibia upon request

Activities

1. Attend Meetings

Laila Akhlaghi attended RPM Plus/Namibia weekly staff meeting on October 12, observed the PMIS Task force meeting on October 21 and attended the PEPFAR/USAID meeting on October 14th.

Laila and Joseph Ngidari met with Tom Kenyon of CDC on October 13th to discussed how the CMS could attain the data submitted in the ARV monthly reports by facilities to NACOP. CDC proposed that within a few months a monthly ART report will be distributed to interested parties and the CMS would be added to this list. The format of the ART monthly reports was also discussed, and RPM Plus requested that the reporting of adult regimens that included D4T and DDI should be stratified by weight (<60Kg and ≥60Kg) and also proposed pediatric weights and height to be added. Tom Kenyon stated that he would suggest these changes to the Epidemiologist who was to start soon who would be responsible for the roll out of Epi-Info., a health Information management system tool.

2. Quantification Exercise

Laila Akhlaghi was asked in country to prepare a quantification exercise in order to determine cost of ARV needs for PEPFAR budgeting purposes. Data collection for the this exercise consisted of gathering ARV consumption data from CMS, review of health facility ARV monthly reports submitted to NACOP and CDC, meeting with Fred Van der Veen of FHI to collect data from St. Mary's hospital and other Catholic Health Service sites and other health facility staff were contacted to gather missing data and to confirm questionable data. The data collected was entered into Quantimed and the resulting requirements were shared with the Namibia RPM Plus team and USAID Namibia Mission. The results of the exercise are attached in Annex 1.

3. Development of facility site quantification tool

Several health facility staff were contacted to learn more about current ARV quantification practices, which included ART data collection tools, forms and reporting by pharmacy staff to the CMS. These facility staff included Great Joy Mazibuku, pharmacist at Oshakati Hospital and pharmacy Assistants Emilia from Otjiwarongo Hospital and Oliver at Walvis Bay Hospital. The tools and forms used for ART data Collection and reporting were sent by fax to Laila Akhlaghi for review. These tools, the development of a manual quantification workbook and a quantification procedure to be used by pharmacy staff at health facilities was discussed with Dawn Pereko.

4. Training CMS staff on Quantification

Habimana and Harriet Lima, staff at the CMS were trained on Quantimed, a software tool that facilitates quantification of pharmaceuticals for scaling-up HIV/AIDS programs, on October 18 and 19.

Collaborators and Partners

USAID

Kirk Lazell Team Leader SO#5 of the Namibia USAID Mission

MoHSS

Johannes Gaeseb Director, Pharmaceutical Control and Inspection, (Acting Director, Division of Pharmacy Services)

CMS - MoHSS

Gilbert Habimana Distribution Pharmacist, Central Medical Stores (Acting Chief, CMS)

Harriot Lima Tender and Procurement Pharmacist

Health Facilities - MoHSS

Rauna Shitaleni Pharmacist – Oshakati
Greatjoy Mazibuko Pharmacist – Oshakati
Oliver xx Pharmacist assistant - Walvis Bay
Joseph Ruzhubiza Pharmacist - Windhoek Central
Emilia Nangombe Pharmacist Assistant-Otjiwarongo

NACOP

Abner Xaogub Member, NACOP

CDC

Tom Kenyon Country Director, CDC and NACOP advisor

FHI

Fred van der Veen Senior Regional Technical Advisor HIV/AIDS

Others

Next Steps

Immediate Follow-up Activities

Provide training on HIV/AIDS pharmaceuticals quantification and Quantimed to all interested persons. Develop a manual quantification workbook to be used at the facility level for ARVs used in ART and PEP.

Any recommended changes to the function and ease of Quantimed are to be considered and changes to Quantimed will be made as necessary.

Recommendations

1. It is recommended that training on improving quantification of ARVs and Quantimed be given to Namibia RPM Plus and CMS staff and any other person responsible for ARV quantification and procurement.

Annex 1. Results of ARV Quantification Exercise

Results of ARV Quantification Exercise
(October 14, 2005)

March '05-Feb '06													
Product	d4T/3TC 30/150	d4T/3TC 40/150	ZDV/3TC 300/150	NVP 200 200mg	EFV 200 200mg	LPV/r 133/33	3TC 150	TDF 300	ZDV 10mg/ml	3TC 10mg/ml	d4T 1mg/ml	NVP 10mg/ml	LPV/r 80/20mg/ml
Total number of packs required	44819	19973	12441	49503	25557	2263	46	92	50364	20596.8	705	10538.5	741.3
Cost per pack	\$6.91	\$7.47	\$15.00	\$6.97	\$43.24	\$60.42	\$7.56	\$51.76	\$4.42	\$4.86	\$12.31	\$3.94	\$60.42
Cost per products	\$309,696.18	\$149,194	\$186,615	\$345,036	\$1,105,100	\$136,730	\$348	\$4,762	\$222,609	\$100,100	\$8,679	\$41,522	\$44,790
Total Cost	\$2,655,179.4												
without EFV and TDF	\$1,545,318.43												
EFV and TDF	\$1,109,861.01												

Jan '05-Feb '05													
Product	d4T/3TC 30/150	d4T/3TC 40/150	ZDV/3TC 300/150	NVP 200 200mg	EFV 200 200mg	LPV/r 133/33	3TC 150	TDF 300	ZDV 10mg/ml	3TC 10mg/ml	d4T 1mg/ml	NVP 10mg/ml	LPV/r 80/20mg/ml
Tota number of packs	5629.7	2482.3	1622	6297	3171.67	277	6	12	6840	2791.2	87	1489.25	90.3
Cost per pack	\$6.91	\$7.47	\$15.00	\$6.97	\$43.24	\$60.42	\$7.56	\$51.76	\$4.42	\$4.86	\$12.31	\$3.94	\$60.42
Cost per products	\$38,901.23	\$18,542	\$24,330	\$43,890	\$137,143	\$16,736	\$45	\$621	\$30,233	\$13,565	\$1,071	\$5,868	\$5,456
Total Cost	\$336,402.36												
without EFV and TDF	\$198,638.37												
EFV and TDF	\$137,763.99												