USP DQI antimalarial sample delivery to Vietnam NIDQC from Thai-Cambodia cross-border study, and meetings with Cambodia DDF and USAID Vietnam

Phnom Penh, Cambodia and Hanoi, Vietnam June 10-11, 2009

Trip Report

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About USP DQI

The United States Pharmacopeia Drug Quality and Information (USP DQI) Program, funded by the U.S. Agency for International Development (cooperative agreement HRN-A-00-00-00017-00), provides technical leadership to more than 30 developing countries to strengthen their drug quality assurance programs, ensure the quality of medicines and promote public health. USP DQI helps build local, national and regional capacity to improve the standards of drug manufacturing and distribution, reduce the impact of infectious diseases, mitigate the effects of the HIV/AIDS epidemic, and advance the appropriate use of medicines. This document does not necessarily represent the views or opinions of USAID. It may be reproduced if credit is given to USP DQI.

Abstract

The United States Pharmacopeia Drug Quality and Information (USP DQI) Program conducted a field mission to collect and deliver antimalarial medicine samples from Cambodia and Thailand to the National Institute of Drug Quality Control (NIDQC) of the Ministry of Health (MOH) in Hanoi, Vietnam for confirmatory testing. The samples were collected during the Thai-Cambodia cross-border antimalarial medicine quality survey and included 20 samples from Thailand and 39 samples from Cambodia. The NIDQC generously agreed to accept the overflow samples to reduce the testing burden on the Thai Bureau of Drugs and Narcotics (BDN) laboratory and to complete the study within the agreed upon timeline. The USP DQI team also met with key partners in Cambodia and Vietnam during this visit.

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Key Words

Cambodia, Thailand, Vietnam, Pharmacovigilance, malaria medicine, cross border study, NIDQC, DDF, oseltamivir

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Special thanks also go to the USAID/Vietnam and USAID/Cambodia Missions for their continued support and to Mr. Anthony Boni and Ms. Veerle Coignez at USAID Washington for their advice and essential support for our activities in Southeast Asia.

ACRONYMS

ABT	Antibiotic							
ACT	Artemisinin-based Combination Therapy Avian Influenza							
AI	Avian Influenza							
AIDS	Acquired Immunodeficiency Syndrome							
AML	Antimalarial							
ATB	Anti-tuberculosis							
BDN	Bureau of Drugs and Narcotics							
BMGF	Bill and Melinda Gates Foundation							
CNM	National Malaria Control Program							
DDF	Department of Drugs and Food							
HIV	Human Immunodeficiency Virus							
MOH	Ministry of Health							
MQM	Medicines Quality Monitoring							
NIDQC	National Institute of Drug Quality Control							
NLDQC	National Laboratory for Drug Quality Control							
NMCP	National Malaria Control Program							
PSA	Public Service Announcement							
RDM/A	USAID Regional Development Mission for Asia							
TB	Tuberculosis							
USAID	United States Agency for International Development							
USP DQI	United States Pharmacopeia Drug Quality and Information							
WHO	World Health Organization							

Background

With the financial support of the U.S. Agency for International Development's Regional Development Mission - Asia (USAID/RDM-A), the United States Pharmacopeia Drug Quality and Information (USP DQI) Program has been assisting countries in the Mekong Subregion – Cambodia, Laos, Thailand, Vietnam, and Yunnan Province of China (until mid-2005) – address the quality of essential medicines, including antimalarial (AML), antibiotic (ABT), antituberculosis (ATB), and HIV/AIDS medicines, since early 2003.

In addition to the USAID/RDM-A funding, USP DQI received financial support from the Bill and Melinda Gates Foundation (BMGF) through the World Health Organization (WHO) to conduct a study on the quality of AMLs in the cross-border provinces of Cambodia and Thailand using a randomized sampling protocol. Due to recent changes in the infrastructure at the National Laboratory for Drug Quality Control (NLDQC) in Cambodia, samples collected during this study need to be sent to partner laboratories in Thailand and Vietnam for confirmation.

In addition to routine monitoring of the quality of infectious disease medicines in Vietnam, USP DQI is pioneering a regional strategy to establish monitoring of stockpiled and circulated *oseltamivir phosphate*, which is the principal antiviral medicine used to reduce mortality and morbidity resulting from avian influenza (AI) infection, caused by H5N1 virus, as well as preparedness for the new outbreaks of H1N1 recently.

Since the Vietnam Ministry of Health is highly concerned about AI (the country has had occasional AI transmission to humans), it is imperative that a routine protocol for sampling and ensuring good quality *oseltamivir phosphate* is established there. As part of regional pandemic preparedness for avian influenza, *oseltamivir phosphate* is often stored in stockpiles at both country and regional centers.

Purpose of Trip

Mr. Raymond transferred samples from the antimalarial medicine quality study from Cambodia to be tested with pharmacopeial methods at the National Institute of Drug Quality Control (NIDQC) in Hanoi, Vietnam. Some samples were also transferred from Thailand to Vietnam for confirmation due to the high work load of the Thailand Bureau of Drugs and Narcotic Lab. During this trip, Mr. Raymond met with key partners, including the Cambodia Department of Drugs and Food (DDF), Pharmacovigilance Center, and USAID/Vietnam staff.

Source of Funding

This trip was supported with funds from RDM/A and WHO/BMGF.

Overview of Activities

June 10, 2009

Meeting with DDF and PV staff, Department of Drugs and Foods Office
Participants: Chroeng Sokhan, Deputy Director of the Department of Drugs and Food and new
President of the Pharmacists' Association of Cambodia; Dathara Mam, Cambodian
Pharmacovigilance Center staff; Bunso Sok, Cambodian Pharmacovigilance Center staff;
Christopher Raymond, USP DQI

Mr. Raymond, along with the PV staff, prepared 39 samples from three provinces (*see Annex 2*) to be brought for confirmatory testing to the NIDQC in Vietnam. Mr. Raymond also delivered a Dell Inspiron laptop computer to the PV staff – which was donated by a private individual to help the center's activities – and distributed copies of the "Pharmacide" public service announcement (PSA) to the DDF staff and for His Excellency, Undersecretary of State, Yim Yann.

In addition, Mr. Raymond and Dr. Sokhan met with the PV staff to discuss their concerns and requests for the next fiscal year's activities. Dr. Sokhan shared a document (in Khmer) with Mr. Raymond (*see Annex 3*) regarding actions taken against newly identified counterfeit amoxicillin 500mg capsules from Shujazhuang Ouyi Pharmaceuticals. He explained that the printed notice is a warning against the importer, Ocean Pharma, and that any further infraction or importation of this product would result in permanent revocation of their import license. A document (in Khmer) discussing the new policy on the artesunate monotherapy ban is included in *Annex 4*.

The PV staff continues to encounter delays in establishing an advisory committee because of high-level requirements in the MoH regarding nominating members to such a committee. Thus, the PV staff cannot select a specific individual for membership; rather, the MoH sends a letter to the university, hospital, or other organization from which a member will come, then allows that organization to select their own nominees. At the current time, a Pharmacy Board is being developed for Cambodia. This board would function as a licensing body with the authority to revoke licenses, accredit pharmacists, etc. It was suggested by the PV staff that the Pharmacy Board could act as an interim advisory committee for the PV center until such time that the internal issues at the MoH could be resolved.

During the USP DQI visit, His Excellency Yim Yann, Undersecretary of State, spoke with Dr. Sokhan to ask if USP DQI could support a final meeting to sign the subdecree that would effectively bring the Pharmacy Board into existence officially. This will need further discussion, but the timeline is very short (by end of the week June 19, 2009).

In discussions with the PV staff, it seems that the radio call-in program that was discussed previously has been put on hold indefinitely.

The PV staff, after debriefing Mr. Raymond on the recent, successful training that USP DQI sponsored at the Uppsala Monitoring Center (UMC) in Sweden, requested that a half-day workshop be organized in Siem Reap to educate local hospital staff on the reporting protocols to the PV Center. This could take place sometime during the next fiscal year. The reporting form for adverse drug reactions/events has been finalized and translated into Khmer, and they plan to begin accepting reports soon, for submission to the UMC.

Dr. Sokhan reiterated the desire for the DDF to expand sampling and testing to all drug classes into the 12 provinces in Cambodia that are not currently covered under the USP DQI/Global Fund monitoring network. He submitted the provincial budgets to Mr. Raymond (see <u>Annex 5</u>) for the previous quarter so that USP DQI could estimate costs if expansion into other provinces is deemed feasible. The DDF has expressed interest in expanding monitoring and would like further feedback from USAID/Cambodia regarding this.

Discussion also revolved around accounting for DDF budgets which USP DQI supports. There has been a recent change in structure at the MoH, and funding no longer goes directly to the DDF and to the USP DQI focal point (Mam Boravann), but rather goes through high ranking channels at the MoH. Thus, Dr. Sokhan requested that at the beginning of each year, USP DQI submit a letter which outlines each activity along with an "anticipated" budget that will be given to the DDF for USP DQI-related activities (even if this is not the "actual" budget). Thus, they can then account for any pipeline later in the year and increase their transparency to the higher levels of the MoH.

A national meeting will be held in Siem Reap June 15-16, 2009 (for the agenda, see <u>Annex 6</u>) to discuss the status of counterfeit medicines monitoring in Cambodia. This meeting will include presentations by Mr. Samuth of the Essential Drug Bureau on USP DQI's medicines quality monitoring (MQM) program as well as results from ongoing testing at the NLDQC by Tey Sovannarith. Ouk Rada, the USP DQI focal point at the national malaria program (CNM), will provide updates from the PV Center and the CNM. Mr. Raymond requested that USP DQI be made aware of such meetings so that they have the opportunity to attend, if necessary.

Next Steps

- Determine if USP DQI will fund signing of official subdecree to establish the Cambodia Pharmacy Board
- Continue discussions about expansion of MQM program into other provinces
- USP DQI to meet with His Excellency Secretary of State Chou Yin Sim, Director and Deputy Directors of DDF and other relevant stakeholders to follow up with pharmacovigilance activities, including defining the TOR and establishing the PV advisory committee to support the full operation of the PV center.
- Provide official letter (along with work plan) for "anticipated budget support" each year to the DDF after work plans are finalized

June 11, 2009

Meeting at the National Institute of Drug Quality Control, Hanoi, Vietnam Participants: Associate Professor Dr. Trinh Van Lau, Director of the NIDQC; Dr. Bui Thi Hoa, Vice Director of the NIDQC; Christopher Raymond, USP DQI

Mr. Raymond met with Drs. Lau and Hoa to deliver the 39 samples from Cambodia (see <u>Annex 2</u>) and 20 from Thailand (see <u>Annex 1</u>) to be analyzed at the NIDQC according to the agreed upon protocol (see <u>Annex 7</u>). After discussing the probable three-week timeline for completion, to begin in July 2009, Dr. Lau mentioned recently meeting Dr. Roger Williams and Mr. Ed Zhao of USP in Ho Chi Minh City during the signing of a Memorandum of Understanding with the MoH. Dr. Lau expressed his appreciation of USP DQI's support to the NIDQC in the form of sending USP reference standards and for sponsoring two staff from the NIDQC (Ms. Le Thi Huong Hoa and Mr. Tran Thuy Thanh) and one from private industry (Mr. Phan Duc An) for the upcoming tuberculosis advanced methods training course at Chulalongkorn University in July 2009. Dr. Lau also mentioned his interest in pursuing a close relationship with USP for researching extraction methods for botanical products in Vietnam to develop reference standards for natural medicines.

Mr. Raymond also met briefly with Ms. Le Thi Huong Hoa to welcome her to the upcoming training in Thailand as she will be one of the participants.

Next Steps

- Follow up with the NIDQC to ensure timely completion of analysis of the confirmatory samples (by the end of the first week of July 2009)
- Send requested USP reference standards to NIDQC, as planned

Meeting at the USAID/Vietnam, Hanoi, Vietnam

Participants: Tim Meinke, Senior Avian Influenza Technical Advisor; Kim Thuy Oanh, Development Assistance Specialist (Avian Influenza); Richard Nyberg, Development Outreach and Communications Advisor; Christopher Raymond, USP DQI

Mr. Raymond distributed the "Pharmacide" PSAs to the USAID staff, who expressed interest in including links to the PSAs on the Mission's website. Dr. Meinke introduced Mr. Raymond to Mr. Richard Nyberg who is involved with media and outreach projects for the Mission and who will review the PSAs to determine how the Mission could use them in other outreach projects or in future media project development.

The group then discussed possible strategies for USP DQI to assist the Mission in providing technical assistance to the MoH for ongoing monitoring and testing of any oseltamivir stockpile or circulating products. Mr. Raymond explained the sampling and testing protocol developed by USP DQI and the successful pilot project in Laos last year testing stockpiled public sector samples. It was reiterated that both WHO and USP DQI have met with difficulties getting details of Vietnamese oseltamivir stockpiles. A recent request was made by WHO-Vietnam for assistance in sampling protocols and recommendations for testing stockpiled WHO oseltamivir.

Dr. Meinke and Ms. Oanh, discussed possible appropriate strategies to begin the process of assisting the Vietnamese MOH in ensuring good quality oseltamivir drugs, especially in light of the H1N1 situation. Dr. Meinke mentioned that Mr. Jim Eberle, of the Deliver Project, will be in Hanoi looking at AI commodities distribution and procurement mechanisms July 6-15, 2009. He suggested that Mr. Eberle, during his analysis, could perhaps make some inquiries on the drug issues regarding oseltamivir stocks, including the pre-deployed ASEAN stockpiles in Vietnam.

In conclusion, the group agreed that USP DQI should send an official letter to two of the Vice Ministers of Health, as recommended by former MoH staff Ms. Oanh. The letter should outline USP DQI's offer to provide technical assistance regarding sampling and testing protocols, in addition to the assistance already given to the NIDQC, and should be addressed to Vice Minister Trinh Quan Huan and Vice Minister Cao Minh Quang. Each Vice Minister covers various aspects of drug procurement and regulation, including oseltamivir, and sending letters to them prior to Mr. Eberle's evaluation visit could be key to provide technical assistance to the Ministry.

Next Steps

- USP DQI to send official letter of offer of technical assistance to Vice Ministers Quang and Huan at the beginning of July 2009
- USP DQI to send finalize AI report from Thailand to the USAID/Vietnam AI staff

• USP DQI to send agenda and list of Vietnamese participants for the TB training at Chulalongkorn University scheduled for July 2009

Annex 1: List of samples from Thailand

ž	Code number	province collected from	Trade name	INN name
П	chan/Primaquine/soidow/R1/09/P001	Chanthaburi	Primaquine tablets	Primaquine phosphate
, 2	R1/Chan/watmai/ch002/chloroquine	Chanthaburi	Chloroquine tablets	chloroquine phosphate
m	R1/chan/patong/p002/primaquine	Chanthaburi	Primaquine tablets	Primaguine phosphate
4	Chan/primaquine/tongnong/R1/09/p004	Chanthaburi	Primaquine tablets	Primaquine phosphate
S	R1/chan/nayaiam/m004/mefloquine	Chanthaburi	Meguin	mefloquine HCL
9	R1/chan/pawa/p008/primaquine	Chanthaburi	Primaquine tablets	Primaquine phosphate
7	R1/chant/saikao/p014/primaquine	Chanthaburi	Primaguine tablets	Primaquine phosphate
∞.	surin/047/R2/09	Surin	Promicin	tetracycline HCL
6	surin/011/R2/09	Surin	Chloroquine tablets	chloroquine phosphate
10	Ubon/nachaluay025/R2/09	Ubon ratchatani	Primaguine tablets	Primaquine phosphate
11	primaquine/012/R2/09	Srisaket	Primaquine tablets	Primaquine phosphate
12	Burerum/013/R2/09	Buriram	Quinine	Quinine sulphate
13	Burerum/005/R2/09	Buriram	Chloroquine tablets	chloroquine phosphate
14	Surin/027/R2/09	Surin	Primaquine tablets	Primaquine phosphate
15	Surin/002/R2/09	Surin	Chloroquine tablets	chloroquine phosphate
16	R1/chan/nayalam/ch014/chloroquine	Chanthaburi	Chloroquine tablets	chloroquine phosphate
17	R1/chan/parknum/ch012/chloroquine	Chanthaburi	Chloroquine tablets	chloroquine phosphate
18	R1/chan/plung/ch022/chloroquine	Chanthaburi	Chloroquine tablets	chloroquine phosphate
19	R1/chan/tabsai/ar010/artesunate	Chanthaburi	Artesunate tablets	artesunate
20	chan/primaquine/songpeenong/p006/R1/09	Chanthaburi	Primaquine tablets	Primaquine phosphate

Confirmation Antimalarial Medicine Samples Thai Ministry of Public Health, Bureau of Vector-borne Diesease

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Annex 2: List of samples from Cambodia

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Confirmation Antimalarial Medicine Samples Cambodia Department of Drugs and Food, EDB, MoH

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Annex 3: Official Notice of Counterfeit Amoxicillin in Cambodia



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លោកច្រធានឡើះស្ថានអាចារំណ និចារំណន្ទិស៩ OCEAN Pharma

តម្មទត្ត : ករណី Amoxicillin 500 mg B/10 Blisters x 10 Capsules មានសារជាតិសកម្មមិនគ្រប់ក៏រិត ។

ន័យដូចបានជម្រាបក្នុងកម្មវត្ថុខាងលើនេះ ខ្ញុំសូមជម្រាបលោកប្រចានថា : ក្រសួងសុខាភិបាលបានស្រាវជ្រាវ ឃើញថាឱ្យសថ Amoxiciliin 500mg B/10 Blister x 10 Capsules ដែលមានលេខឡូតិ៍ 0329 ខែឆ្នាំផលិត 05-2008 ខែឆ្នាំផុតកំណត់ 05-2011 និងមានលេខបញ្ជិកា CAM 798-07 ដលិតដោយរោងចក្រដលិតឱ្យសថនៅ ប្រទេសចិន ឈ្មោះ SHUJAZHUANG OUYI PHARMACEUTICAL ដែលក្រុមហ៊ុន OCEAN Pharma របស់លោកបាន នាំចូល និង ចែកចាយ ក្នុងព្រះរាជាណាចក្រកម្ពុជាកន្លងមក មានសារជាតិសកម្មត្រឹមតែ 49,07 % តែប៉ុណ្ណោះ ។

ក្រសួងសុខាភិបាលបានសម្រេចដកឱសថ Amoxicillin 500 mg នេះ ចេញពីបញ្ជិកាឱសថរបស់ក្រសួង សុខាភិបាល ហើយក្រសួងសុមឱ្យលោកប្រធានបញ្ឈប់ការទាំចូល ការចែកថាយ និងចាត់ចែងប្រមូលមុខឱុសថនេះឱ្យអស់ពី ទីផ្សារក្នុងព្រះរាជាណាចក្រកម្ពុជាជាបន្ទាន់ ហើយធ្វើរបាយការណ៍ផ្ញើមកនាយកដ្ឋានឱុសថ ចំណីអាហារ បរិក្ខារពេទ្យ និង គ្រឿងសំអាង ។

ក្នុងករណីមានឱសថផ្សេងទៀតដែលក្រុមហ៊ុនលោកនាំចូលមកមានបញ្ហាតុណភាពដូចគ្នានេះ ក្រសួងសុខាភិបាល នឹងធ្វើការបញ្ឈប់ក្រុមហ៊ុន OCEAN Pharma មិនឱ្យបន្តអាជីវកម្មឱសថតទៅទៀតបានទេ ។ ដោយឡែករោងចក្រ ដលិតដែលបានបញ្ជូនឱសថគ្មានគុណភាពមកទីផ្សារកម្ពុជាក៏នឹងត្រូវហាមឃាត់ជាស្ថាពរ លែងឱ្យធ្វើអាជីវកម្មផលិតផល របស់ខ្លួនលើទីផ្សារកម្ពុជាផងដែរ ។

សូមលោកប្រធានប្រាប និងចាត់ខែងតាមសំណូមពររបស់ក្រសួងសុខាភិបាលឱ្យមានប្រសិទ្ធភាព ។ 🛶 💆

ខម្មងជូន :

-ខុទ្ទកាល័យក្រសួងសុខាភិបាល

-អគ្គនាយកដ្ឋានបច្ចេកទេសសុខាភិបាល

-នាយកដ្ឋានឱ្យសថ-ចំណីនាហារ-បរិក្ខានពទ្យ និងច្រឿងសំនាង 🍫

-ត្រប់មន្ទីរសុខាភិបាលរាជធានី-ខេត្ត

- គ្រប់ក្រុមហ៊ុនអាហ័រណ-នីហ័រណង៉ិសថ

- គ្រប់សហគ្រាសជលិតឱុសថ

-គ្រប់ឱសថស្ថាន-ឱសថស្ថានរង

-ឯកសារ - កាលច្បវត្តិ 🐠 🕽

্রের্ডির জিল্লার জন্ম ক্রিল্ডির জন্ম জন্ম ক্রিল্ডির জন্ম

ใหงการ เราะ

ទីស្តីការរដ្ឋមន្ត្រីក្រសួងសុខាភិបាល,លេខ ១៥១ -១៥៣ រុក្ខិថិ កម្ពុជាក្រោម ភ្នំពេញ ទូរសព្ទី-ទូរសារៈ (៤៥៥-២៣) ៤២៦ ០៣៤/៤២៦ ៨៤១ ទូរស័ព្ទៈ (៤៥៥-២៣) ៧២២ ៩៣៣

Annex 4: Official Notice of Artesunate Monotherapy Ban in Cambodia



ព្រះរាសាលាចក្រកម្ពុស សាសលា ព្រះមហាក្សត្រ

MCHE MITH SOLVER

រាជពានីភ្នំពេញ, ថ្ងៃទី៤ភា ខែ៤ភា ឆ្នាំ២០០.ន៍..

សេចក្តីប្រកាសពត៌មាន

ក្រសួងសុខាភិបាល មានកិត្តិយសសូមជំរាបជូនអស់លោក លោកស្រី ជាវេជ្ជបណ្ឌិតដែលចេញវេជ្ជបញ្ជា និង និសថការីទាំងអស់ ដែលទទួលខុសត្រូវគ្រឹះស្ថានផលិតនិស៍ថ , គ្រឹះស្ថានអាហរំណៈនីហរំណនិសថ , និសថស្ថានៈ និសថស្ថានរង , អាជីវតរ និង ប្រជាពលរដ្ឋទាំងអស់ ឱ្យបានជ្រាបថា :

-យោងលិខិតលេខ ០៩០៥ អបសេឱ្យអបស ចុះថ្ងៃទី ២៣ ខែ កញ្ញា ឆ្នាំ ២០០៨ របស់គ្រសួងសុខាភិបាល ស្ដីពីការ បញ្ឈប់នូវការផលិត ការនាំចូល ការចុះបញ្ជីកាឱសថ ការលុបចេញពីបញ្ជីឱសថដែលបានចុះបញ្ជីកា នូវឱសថក្រុនចាញ់ ប្រភេទជាថ្នាំត្រាប់សំរាប់លេបមួយចំនួន ជលិតដោយជាតិសកម្ម Artemisinin ឬ Artsesunate ឬ Artemether ឬ Dihydroartemisin តែមួយមុខ ដែលបណ្ដាលឱ្យមានភាពសុាំក្នុងការព្យាបាលជម្ងីគ្រុនចាញ់ និងដោយពិនិត្យឃើញនៅ លើទីផ្សារកម្ពុជាបច្ចុប្បន្ននៅមានចរាចរឱសថគ្រុនចាញ់ខាងលើ ដែលព្រសួងបានហាមឃាត់ ។

អាស្រ័យហេតុនេះ អនុលោមតាមច្បាប់ ស្តីពិការគ្រប់គ្រងឱសថ ក្រសួងសូមមានវិធានការ ដូចតទៅ :

- ១. គ្រឹះស្ថានផលិតឱសថ និងគ្រឹះស្ថានអាហរ័ណ នីហរ័ណឱសថ ដែលធ្វើប្រតិបត្តិការផលិត នាំចូល ឬចែកចាយឱសថ ខាងលើ ត្រូវចាត់តាំងការប្រមូលឱសថទាំងនោះ ពីឱសថស្ថាន ឧិសថស្ថានវងនានា ក្នុងព្រះរាជាណាចក្រកម្ពុជា
- ២-គ្រឹះស្ថានលក់ឱសថទាំងអស់ត្រូវបញ្ឈប់ការពាំងលក់ឱសថខាងលើ ចាប់ពីថ្ងៃចេញសេចក្តីជូនដំណឹងនេះកទៅ
- ៣.គ្រប់មន្តីរសុខាភិបាលរាជធានី.ខេត្ត ត្រូវមានវិធានការ ធ្វើការណែនាំ ដល់គ្រប់សាខាគ្រឹះស្ថានអាហ៍រំណ នីហ៍រំណងសថ.ឌិសថស្ថាន.ឌិសថស្ថានរង ដូចមានក្នុងចំណុច១ខាងលើ
- ៤ ត្រសួងនឹងមានវិធានការតីងរីងតាមផ្លូវច្បាប់ ចំពោះគ្រឹះស្ថានផលិតឱសថ គ្រឹះស្ថានអាហវ័ណ និហ័រណឱសថ ឱសថស្ថាន.ឱសថស្ថានរងទាំងឡាយណា ដែលនៅតែបន្តការផលិត ការទាំចូល ឬចែកចាយ ្មនិងការតាំងលក់ ឱសថខាងលើនេះ ។ ചារួទ្ធ

: <u>ឧប្</u>ជជម្ល

.ក្រសួងពត៌មាន ៉ដើម្បីជួយឲ្យព្វព្យាយ ់

.លេខាតិការផ្សាន នៃពណៈកម្មការអន្តអាក្រសួង និងការកម្មការរាជធានី រខេត្ត

លុបបំពាត់ឱសថក្លែងក្លាយ និងសេវាសុខាភិពាលខុសច្បាប់

្សាប់មន្ទីរពេទ្យជាតិ

.គ្រប់មន្ទីរសុខាភិបាលរាជធានី.ខេត្ត

.នាយកដ្ឋាននិសថ ចំណីអាហារ បរិក្ខារពេទ្យ និងគ្រឿងសំអាង 🛎

្រុកបំណុទិយ៍វិទ្យ.ទូរទស្សន៍ "ដើម្បីជួយឲ្យព្ធព្យាយ"

. គ្រប់សារព័ត៌មាន "ដើម្បីជួយផ្សព្វផ្សាយ'

.ឯកសារ.កាលច្បវត្តិ 🐠

Annex 5: Cambodian budget for quarter 6

Date: Ob Mov 09	<u>.</u>								Project Manager	Projec
Ph. Hun Huong	ם פ								Dr.Chroeng Sokhan	Dr.C
Prepaired by:	.								Approved by:	Appr
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Annex 6: Agenda of Cambodia National Meeting on Counterfeit Medicines Monitoring

នផ្តនិនីសិត្តាសាលា

តិចូច្រប៉ុពិច្ចោះរយាមល់ស្តីពីយុទ្ធសាស្ត្រនៃការលុចចំនាក់និច ៩ការកុត្យិសចក្លែចគួរយព័ធីរបាកធ្លប់ គឺកន្លែច: ខេត្ត សៀមរាប (សណ្ឋាភា៖ អប្បារសន្តវ)

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od:go-g: ao	៤- បង្ហាញកោលចំណងអង្គសិក្ខាសាលា	លោកបណ្ឌិត ច្រឹង សុខន អនុប្រធាននាយកដ្ឋានឱសថ	
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0६:६६-७0:७६	៦- បង្ហាញពីសកម្មភាពរបស់ភ្នាក់ងារត្រួតពិនិត្យឱ្យសថ	លោកឱសថការី ប្រេម ល្ប៉ុន អនុប្រធាននាយកដ្ឋាន	
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90:94-90:M&	៧– សកម្មភាពត្រូតពិនិត្យតុណភាពឱ្យសថក្រោម គំរោង USP-DQI (USAID)	លោក អឿន សាមុត	
90:M&-99:00	៨- វធាយការណ៏សរុបសកម្មភាព គណៈកម្មការលុបបំបាន់ឱុសថ ក្លែងក្លាយ សេវា	លោក ហ៊ុន ហួង	
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99:00-9E:00	៩-ពិភាក្សារក្រុមធំ	ឯកឧត្តម ជូំ យិនស៊ីម រដ្ឋលេខាធិខាក្រសួងសុខាភិបាល	
୭୭:୦୦-୭୯:୦୦	សំរាកពិសារចុយ		
96:00-96:mo	90-ប្រពិបត្តិការខ្យល់ព្យះ	លោក វរៈសេនីយ៍ទោ សួន ណាវ៉ា នាយការិយាល័យនៃ	
		នាយកដ្ឋានប្រឆាំងបទល្មើសសេដ្ឋកិច្ច	
96:M0~98:90	១១-ការបង្ហាញពីលទ្ធជំលិវភាគគុណភាពឱសថរបស់ NLDQCសហការ ជាមួយ	លោក តី សុវណ្ណវិទ្ធ	
	DDF ក្រោម តំរោង GFR6& USP-DQI (USAID)		
98:90-98:60	សំរាកពិសារអាលជ្ជៈ		
96:60-99:96	១២-វបាយការណ៏សកម្មភាពរបស់កម្មវិធី Pharmacovigilanceនិងទិសាដៅ បន្ត	លោក សុខ ច៊ុនសូ និង លោក ម៉មដាត្ថារាំ	
95:9 6-91: 00	១៣- ជែនការសកម្មភាពលើសេវាឯកជនរបស់ СММ	លោក អ៊ុក រាំដា	
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ថៃទី២: ថៃអងារទី ១៦ ខែ ទីថនា នាំ ២០០៩

od:00-0d : b0	១៤- សង្ខេបសកម្មភាពថ្ងៃទី១	លោក ហូត សេងថុង
od:bo-90:00	9៥- របាយការណ៏សកម្មភាពឥណៈកម្មការលុបចំបាត់ឱុសថក្អែងក្លាយសេវាខុសច្បាប់	ខេត្តកំពង់ចាម, ព្រះវិហារ, បាត់ដំបង, កំពង់ឆ្នាំង
	និងប្រព័ន្ធតាមដានពុណភាពឱសថលើទីផ្សារសំរាប់ឱសថត្រូនចាញ់របស់ខេត្តនីមួយ។	
90:00-90:00	សំពុកពិសារភេសថ្ល:	
90:B0-9B:00	១៦-ការបង្ហាញលទ្ធជលរបស់ក្រុមនីមួយ១	តំណងក្រុមពិភាក្សា
əp:00-əç:00	សំរាកពិសារមួយ	
96:00~96:MO	១៧- បង្ហាញពីដោលការណ៏ទូទាត់ថវិកា សំរាប់គំរោងមូលនិធិសកល	លោកស្រី ដួង ដារី
96:mo-9 ៦:b o	១៨-ពិភាក្សារក្រុមធំ	លោកបណ្ឌិត ច្រឹង សុខន
		លោកឱសថការី ប្រេម ល្ប៉ុន
ob:6e-0 d :6e	សំរាកពិសាររោសជ្ជៈ	
9 ៦: ៤០-១៧:០០	១៩- អនុសាសន៍ សំល្មមពរ និងប្រកាសបិទវត្តសិក្ខាសាលា	លោកបណ្ឌិត ថ្រឹង សុខន

Annex 7: Protocol for samples testing





8 June, 2009

Assoc. Prof. **TRINH VAN LAU**, PhD
Director of National Institute of Drug Quality Control (NIDQC)
No 48 Hai Ba Trung Str, Hoan Kiem Dist
Hanoi, Vietnam

Dear Dr Lau,

It is with great appreciation that the NIDQC has agreed to accept the antimalarial medicine samples for confirmatory testing, according to pharmacopeial methods, from our specialized study on the Thailand-Cambodia border. We are pleased to have the collaboration of your institute, a highly recognized laboratory and a long history of successful cooperation with United States Pharmacopeia Drug Quality and Information Program projects in Vietnam.

Since we began our joint activities with NIMPE, the DAV, and the NIDQC in 2003, USPDQI is encouraged by the efforts made in monitoring the medicines supply in Vietnam. Additionally, we are pleased to provide support as needed in the form of reference standards and advanced methods training for your lab staff as has been done in previous years.

Please find enclosed all of the relevant paperwork, sample data sheets, and antimalarial medicine samples for confirmatory testing at the NIDQC laboratory. We very much appreciate timely completion of analysis, especially due to time constraints to submit the final report of this special study.

In addition, find attached to this letter the required tests to be performed as well as the recommended pharmacopeias and the reporting forms to be included in the final report.

Test protocol:

- 1. Appearance,
- Identity of API(s)
 - a. if passed continue with the Assay (Test 3)
 - b. If failed no need to do Assay, nor other tests
- 3. Assay for content of API(s)
 - a. if passed continue with dissolution test (Test 4)
 - b. if failed no need to do dissolution test, nor other tests
- 4. Dissolution

Note for some additional tests:

- 1. artesunate test for related substance
- 2. Tetracycline test for impurity (4-epianhydrotetracycline)

Please separate the results according to country, i.e. one separate report for Thailand, and one report for Cambodia.

Thank you in advance for your vital assistance in this endeavor in making our study a success.

Regards,

Christopher Raymond

Christopher Raymond Project Coordinator for Southeast Asia US Pharmacopeia Drug Quality and Information Program Bangkok, Thailand

United States Pharmacopeia

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USP-India Private Limited Hyderabod, India

USP-China Shanghai, China

USP-Brazil São Paulo, Brazil

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