

**International Training Course on Drug and Therapeutics Committees
Mumbai, India**

Trip Report

September 23 – October 2, 2002

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October 2002

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Acronyms

AMR	Antimicrobial Resistance
ARCH	Applied Research for Child Health
DSPRUD	Delhi Society for Promotion of Rational Drug Use
DTC	Drug and Therapeutics Committee
EHP	Environmental Health Project
ERC	Electronic Resource Center
ICIUM	First International Conference on Improving Use of Medicines
INRUD	International Network for Rational Use of Drugs
MSH	Management Sciences for Health
RPM Plus	Rational Pharmaceutical Management Plus Program
USAID	United States Agency for International Development
USP	United States Pharmacopoeia
WHO	World Health Organization

Background

Antimicrobial resistance (AMR) continues to be a threat to health worldwide and the problem is growing at an alarming rate. The continuing situation with AMR can generally be traced to inappropriate prescribing and use of antimicrobials as well as the inappropriate use of antimicrobials in agriculture and animals. Not only do these problems increase morbidity and mortality, but they also divert financial resources that could otherwise be used for other health care problems.

In 1997 the Rational Pharmaceutical Project (RPM) co-sponsored the First International Conference on Improving Use of Medicines (ICIUM) in Chiang Mai, Thailand. RPM's international partners included the Applied Research for Child Health Project (ARCH), the International Network for Rational Use of Drugs (INRUD), the United States Pharmacopoeia (USP), and the WHO Action Programme on Essential Drugs (WHO/DAP). During this conference RPM and partners identified the following activities to address the problem of irrational drug use, especially irrational antimicrobial use.

- Indicators to study antimicrobial use in hospitals
- Drug and Therapeutics Committees (DTC)
- Research initiatives on improving prescribing and dispensing practices, improving community use of medicines, and developing effective pharmaceutical policies and regulations.

The conference recommended that DTC training materials be developed to improve the functions of this drug management committee. Drug and Therapeutics Committees have been in existence for many years, but their effectiveness in improving drug use in most settings is problematic. Training materials to increase capacity and improve outcomes from the DTC were not available at the time of the conference. RPM and RPM Plus has been committed to developing and implementing these training materials to assist in the improvement of DTCs in developing countries.

The DTC training materials were developed during the months of February through May 2000. A field test of the materials was accomplished in June 2000 in Bangkok, Thailand. The training materials and technical assistance from RPM Plus staff was utilized to assist a local MSH program to present the training materials in Manila, Philippines in February 2001.

This important course work provides formal presentations, discussions, activities, and a field study to educate participants about important information concerning DTCs. Participants are also expected to learn concepts that will be utilized to improve their home country (hospital) DTC. Outcomes from this training course would be improved selection of drugs, a more efficient drug delivery system, improved assessment of drug use in hospitals, the use of strategies to rationalize drug use, and ultimately improved patient care.

In June 2001, RPM Plus presented the first international course on Drug and Therapeutics Committee in Jojokarta, Indonesia. Present at this training course were three Indian participants who immediately started the planning process to bring this course to India in the next year. The

need is great in this country - inadequate formulary management and irrational drug use in this country of one billion people necessitates dramatic changes in the way drugs are procured and used.

Purpose of Trip

The purpose of the trip was to conduct the international training course on Drug and Therapeutics Committees. This was a collaborative effort with the World Health Organization, Delhi Society for Promotion of Rational Drug Use, and BYL Nair Charitable Hospital in Mumbai.

This training program goal is to capacitate participants to develop and implement comprehensive programs to improve DTC programs in their local hospital or health care facility. A monitoring and evaluation component has been built into this training program that will track participants at their home DTC or administrative position. Participants are required to develop their own plans for future DTC activities and MSH will follow up and provide technical assistance via the newly established DTC web site and through e-mail/phone/fax. This monitoring and evaluation system is expected to improve the long-term learning and behavioral changes that are necessary to produce changes in healthcare practices.

Scope of Work

1. Scope of Work for the team is as follows:

- Terry Green
 - Act as co-director of the course
 - Provide instruction and facilitation of DTC principles and practices
 - Provide theoretical concepts and hands on practical exercises in teaching this course
 - Develop post-course monitoring and evaluation plan
 - Brief/debrief USAID officials if requested

- Paul Arnow
 - Provide instruction and facilitation of DTC principles and practices
 - Provide theoretical concepts and hands on practical exercises in teaching this course

2. Anticipated Contacts:

Dr. Victor Barbiero, USAID/India

Bethanne Moskov, USAID/India

Dr. Ranjit Roy Chaudhury, WHO-India Essential Drugs Programme

Dr. Urmila Thatte, Maharashtra WHO- India Essential Drugs Programme

Kathy Holloway, WHO/EDM

3. Logistics: Terry Green arrived in Mumbai on September 22 at 12:30am and departed on October 4th at 1:50am. Paul Arnow Arrived on September 22 at 12:45am and departed October 3 at 2:30am. While in Mumbai, Terry Green and Paul Arnow stayed at the course venue, Aska Beach Hotel.

Funding: The in-country work was paid for with RPM Plus forward funded field support funds.

Activities

Terry Green

Co-direct the Training Course on Drug and Therapeutics Committees and facilitate DTC principles and practices.

Terry Green, in cooperation with WHO/EDM, co-directed and served as the primary facilitator for presentations and activities for the nine-day Drug and Therapeutics Training course. The Drug and Therapeutics Committee was planned, organized, and implemented in collaboration with WHO/EDM, WHO/India, DSPRUD, and BYL Nair Hospital. This course was important to provide comprehensive training to increase capacity of participants from India and surrounding countries.

Presentation and facilitation of the course work was distributed among the RPM Plus, WHO, and local facilitators.

- Terry Green was facilitator for the following sessions: Formulary Management, Managing Drug Safety, Drug Information, Strategies to Improve Drug Use-Overview (activity), workplan development/follow-up, and field study
- Paul Arnow facilitated: Drug efficacy, Standard Treatment Guidelines, Infection Control, DUE activity, Medication Errors, and field study
- Kathy Holloway facilitated: Determining Drug Costs, DTC Overview, Drug Use Evaluation, Assessing Drug Use, Getting Started, and field study
- Urmila Thatte facilitated: Assessing Drug Use (Indicators)
- Usha Gupta facilitated: Strategies to Improve Drug Use-Overview
- Sri Suryawati facilitated: Why Drug Use Problems Occur, Drug Quality, and field study

The course was judged to be highly successful by facilitators and participants. Written evaluations of each session and an evaluation of the overall course were completed. Utilizing a 9-point scale the sessions averaged between 7.3 and 8.3. The overall course evaluation averaged 8.3 with many favorable comments. We believe that the participants

were **extremely** satisfied with the course work based on these evaluations and discussions with individuals throughout the training. See Annex 4 for a summary of individual session evaluations and overall course evaluation.

Develop post-course monitoring and evaluation plan

Workplans were developed during the course and have been posted on the DTC Web site. See Immediate Follow-up Activities for more information.

Brief/debrief USAID officials if requested

USAID were contacted during the course to determine if a debriefing was necessary. They did not indicate that this was required.

Paul Arnow

*Provide instruction and facilitation of DTC principles and practices. Provide theoretical concepts and **hands-on** practical exercises in teaching this course*

Dr. Arnow was a facilitator for five sessions including Drug Efficacy, Standard Treatment Guidelines, Infection Control, DUE activity, and field study. He was contributor and facilitator in all of the group discussions and activities.

Dr. Arnow also developed a new DTC section, Medication Errors. This new section was presented at the course and will be incorporated into future DTC courses under the Assessing and Managing Drug Safety module.

Collaborators and Partners

RPM Plus collaborated with the following organizations and individuals in the preparation of the course materials and the organization/implementation of the training course.

World Health Organization

- Dr. Kathy Holloway, Medical Officer, Department of Essential Drugs and Medicines Policy
- Drs. Ranjit Roy Chaudhary and Usha Gupta, Delhi Society for Promotion of Rational Drug Use
- Dr. Urmila Thatte, BYL Nair Charitable Hospital

Next Steps

Immediate Follow-up Activities

Part of the course activities for the 28 participants was to make plans for their activities over the next 12 months in either strengthening their own DTC or planning to do courses promoting DTCs. Detailed plans have been developed and written by the participants and have been

transcribed and placed onto the DTC web site. Transcribed workplans have been sent back to all of the participants via e-mail. Follow-up of these plans will be done by Terry Green and, wherever possible, the local facilitators at BYL Nair Hospital and DSPRUD utilizing e-mail, phone calls, DTC Web Site, and on-site visits.

Recommendations

1. RPM Plus will continue follow-up of all participants of this course. This will be accomplished by DTC Web Site, e-mail, and fax. Participants will be given appropriate technical assistance when necessary.
2. Revisions and updates of the training materials will continue. Kathy Holloway will review the Safety section and incorporate the Medication Errors section. Paul Arnow will revise the Infection Control participant's guide and the activity. Participant's guides for Drug Quality, DTC Overview, and Efficacy will be updated with the experience gained from this course.
3. Trainer's Manual will be updated with the goal of finalization by the end of the Jordan DTC course in December.

Agreement or Understandings with Counterparts

RPM Plus will continue to collaborate with WHO on presentation of DTC courses. The next scheduled course is Amman, Jordan December 10-19, 2002. This will be the last course for this workplan. WHO and RPM Plus will continue to coordinate the revisions of the course materials

Important Upcoming Activities or Benchmarks in Program

DTC Courses (planned and tentatively planned activities)

- Amman Jordan – December 10-19, 2002
- Africa DTC Workshop - Tentatively set for February 2003

Annex 1 Participants Profile

Training Course on Drug and Therapeutic Committees Participant Profile for DTC Web site

LIST OF PARTICIPANTS

No.	Name	Professional and Personal Interests	Contact Details
1.	Dr. Girdhar Anand Associate Professor, Department of Pharmacology BJ Medical College, Ahmedabad 380 016 Gujarat, India.	Professional <ul style="list-style-type: none"> • Neurosciences • CVS Pharmacology • Use of Rational Drug Therapy Personal <ul style="list-style-type: none"> • Outdoor sports • Reading 	anandgirdhar@hotmail.com Tel: Off: 91-79-2683721 (Ext:1275) Res: 91-79-7456734
2	Ms Tavanjin Badjav Drug Information Officer, State Inspectorate for Health Mongolia, UB-48, Janiyan Street, Ulaan Baafar Mongolia.	Professional <ul style="list-style-type: none"> • Rational Drug Use • Drug Information Personal <ul style="list-style-type: none"> • Listening to Music • Reading 	btavaa@yahoo.com Tel : Off: 976-11-322725 Fax: 976-11-325018 Mobile : 99171326
3	Dr. JMW Jayasundara Bandara Director of Laboratory Services, Acting Director, Medical Supplies, Ministry of Health, SUWASIRIPAYA 385, Baddegama Wimalawansa Mawatha Colombo – 10 Sri Lanka	Professional <ul style="list-style-type: none"> • Management of all Diagnostic Laboratories in Public Sector Hospitals including 18 Teaching Hospitals. • Monitoring Laboratory Performance. • Estimation, Indent storage and distribution of drugs to all hospitals in the country. • Monitoring ADR, Abuse, Theft and pilferage of drugs in the public sector. Personal <ul style="list-style-type: none"> • Reading • Public Speeches • Writing (in local language) 	jasunban@slt.net.lk sundaban@slt.net.lk sundarajaya@yahoo.com Tel : Off: (00941) 673135 Fax: (00941) 692913 Res: (00941) 701249

No.	Name	Professional and Personal Interests	Contact Details
4	Dr. Praveen Bhugra Associate Professor, Department of Pharmacology Pramukhswami Medical College, Post Box No. 32, Karamsad 388 325 Gujarat, India.	Professional <ul style="list-style-type: none"> • Experimental cardiovascular Research • Rational Drug Therapy • Visiting faculty for Master of Industrial Hygienic Course for Environmental Toxicology. Personal <ul style="list-style-type: none"> • Reading • Listening to Music 	praveen_bhugra2000@yahoo.com Tel: Off : 91-02692-23010 (Ext427) Res: 91-02692-22739
5	Dr. Sujith J. Chandy Dept of Clinical Pharmacology , Christian Medical College &Hospital, Vellore, Tamil Nadu 632004 India.	Professional <ul style="list-style-type: none"> • Clinical Pharmacology education techniques • RUD, Antibiotic use studies, Therapeutic Drug Management, ADR monitoring. • Pharmacoepidemiology, Pharmacoeconomics, Personal <ul style="list-style-type: none"> • Music, • Sports • Drama • Current Event 	clinpharm@cmcvellore.ac.in sjchandycmc@hotmail.com Tel: Off: 91-416-2222102 Ext:2721 Res: 91-416-2262603
6	Dr. Mrudul Kumar Daga Professor of Medicine Maulana Azad Hospital, New Delhi – 110 070 India	Professional <ul style="list-style-type: none"> • Intensive Care and ICU infections • Member of the Hospital Purchase Committee • I/c of medical ICU • Pulmonary and Critical Care Personal <ul style="list-style-type: none"> • Music • Reading • Travelling • Sport 	somank@bol.net.in Tel: Off: 91-11-3222964 Res: 91-11-6893016

No.	Name	Professional and Personal Interests	Contact Details
7	<p>Dr. Hemangee Dhavale Professor & Head, Department of Psychiatry, <u>Residence</u>: Block No. 25, Bldg No. 1, Doctor's Qtrs., Govt. Colony, Haji Ali, Mumbai 400 034. India</p>	<p>Professional</p> <ul style="list-style-type: none"> • Child Psychiatry • Women's Mental Health • Community Psychiatry <p>Personal</p> <ul style="list-style-type: none"> • Reading and Writing 	<p>drdhavale@hotmail.com</p> <p>Tel: Off: 91-22-3081490 Res: 91-22- 4921029/4974255</p>
8	<p>Ms. El-Gili El-Trafi Zainab Hospital Pharmacist Ministry of Health, Khartoum State, Directorate of Pharmacy and Medical Supplies, Khartoum PO Box : 1715 Sudan-Moh- Kh-State, Sudan.</p>	<p>Professional</p> <ul style="list-style-type: none"> • Clinical Pharmacology: hope to do M.Sc. in Clinical Pharmacology • Hospital: Pharmacist • Patient care: Dispensing of drugs, Check order and supply of drugs to the Hospital. Make seminars about defined topics related to the drugs. <p>Personal</p> <ul style="list-style-type: none"> • Cooking • Reading • Music 	<p>salahjawher@hotmail.com</p> <p>Tel: Off: 00-249-12910689 Fax : 0024911785473</p>
9	<p>Ms. Faridah Head of Sub Directorate, National Essential Drugs- Directorate Rational use of Drug, Jalan Cisanggiri S No.5- Keba Yoran Baru, Jakarta 12170, Indonesia</p>	<p>Professional</p> <ul style="list-style-type: none"> • Patient care, • Pharmaceutical care <p>Personal</p> <ul style="list-style-type: none"> • Gardening • Pets (Dogs, Birds) • Travelling 	<p>Tel: Off: 021-5201590 Ext 6309 Fax : 021-52964838 Res : 021- 7220686</p>

No.	Name	Professional and Personal Interests	Contact Details
10	<p>Dr. Shobha Rani R. Hiremath Professor and Head, Dept. of Pharmacy Practice Al-Ameen College of Pharmacy, Hosur Road, Near Lalbagh Main Gate, Bangalore 560 027 Karnataka, India</p>	<p>Professional</p> <ul style="list-style-type: none"> • Research in the area of Biopharmaceutics and Pharmacokinetics and Drug delivery systems as a guide for Masters and Ph.D programmes • Promoting Rational Drug Use through the DTC in our hospital • Patient Counselling • Education and training the Doctors, Nurses, other health care professionals and the patients regarding the Rational Use of Drugs • We already have a bulletin, to give the information about ADR's and drug information to all health care professionals • To develop Essential Drug list and formulary for our hospital <p>Personal</p> <ul style="list-style-type: none"> • Watching movies • Music • Reading books on Philosophy and spirituality 	<p>shobha24@yahoo.com</p> <p>Tel: Off: 91-80-680 1222 Fax: 91-80-680 1222 Res: 91-80-352 1385</p>
11	<p>Dr. Sandhya Kamath Professor, Department of Medicine 30 Sagar Tarang, 81/83 Bhulabhai Desai Road, Mumbai 400 036, India</p>	<p>Professional</p> <ul style="list-style-type: none"> • Hypertension and Geriatrics, Medical Education and teaching Technology, Intensive Care, RUD <p>Personal</p> <ul style="list-style-type: none"> • Reading • Indian Music • Cricket 	<p>sandhyakamath@hotmail.com</p> <p>Tel: Off: 91-22-308 1490 (ext:2152) Fax: 91-22-3694298 Res: 91-22-3677360/3649522</p>

No.	Name	Professional and Personal Interests	Contact Details
12	Ms. Inthira Kanchanaphibool Lecturer, Faculty of Pharmaceutical Sciences, Silpakorn University, Muang District, Nakhon Pathom Province, 73000 Thailand.	Professional <ul style="list-style-type: none"> • Information system for enhancing RUD and quality care Personal <ul style="list-style-type: none"> • Travelling, • Cooking 	inthira_k@hotmail.com inthira.k@student.chula.ac.th Tel : Off: 6634-255800 Fax: 6634-255801
13	Dr. Sanjay Khattri Lecturer, Department of Pharmacology King George's Medical College, Lucknow – 226003. C-52 Sector B, Ali Ganj, Lucknow, UP, India	Professional <ul style="list-style-type: none"> • ADR Monitoring, • Life member: International society of Cardiology Personal <ul style="list-style-type: none"> • Listening to music • Computers • Reading 	skhattri@rediffmail.com Tel: Off: 91-522-257448 (ext 31) Res: 91-522-374013/329010
14	Dr. Renuka Kulkarni Lecturer, Department of Clinical Pharmacology TN Medical College & BYL Nair Ch. Hospital, Dr. A. L. Nair Road, Mumbai Central, Mumbai – 400 008. India	Professional <ul style="list-style-type: none"> • Research & Training in Clinical Pharmacology (DIS/ ADR monitoring / TDM / RUD) and Neuropsychopharmacology, • Promotion of Research and RUD among colleagues and lay public Personal <ul style="list-style-type: none"> • Reading • Listening to music 	renuka25@yahoo.com Tel: Off: 91-22-3050347/ 3014713 / 3081490 (ext 2205)

No.	Name	Professional and Personal Interests	Contact Details
15	<p>Dr. Farida Ladak Associate Professor Department of Pharmacology Grant Medical College, JJ Group of Hospitals Mumbai. India.</p> <p>Res:24/63 Anand Sagar, Bandra Reclamation, Mumbai – 400 050, India.</p>	<p>Professional</p> <ul style="list-style-type: none"> • Pharmacology (M.D.) – Clinical Pharmacologist • Teacher: Under Graduate and Postgraduate students • JJ Hospital – Drug Sanction Committee • Clinical Trials – Human Volunteers Pharmacoeconomics • Organiser – Community based programmes (for women and senior citizens) <p>Personal</p> <ul style="list-style-type: none"> • Social service • Member of AK network programme • Travelling • Cooking • Watching TV (National Geographic) 	<p>malikladak@hotmail.com</p> <p>Tel: Off: 91-22-3735555 (Ext. 2322) Fax: 91-22-8216240 Res: 91-22-6442684</p>
16	<p>Mrs. PK Lakshmi Deputy Director, Drug Information Centre, Karnataka State Pharmacy Council 514/E, I Main, II Stage, Vijayanagar Club Road, Bangalore 560 040 Karantaka, India</p>	<p>Professional</p> <ul style="list-style-type: none"> • ADR Monitoring, Drug information systems, networking of DICs, Patient Counselling Tools <p>Personal</p> <ul style="list-style-type: none"> • Travelling • Music • Reading • Astrology 	<p>sureshlakshmi6@yahoo.com</p> <p>Tel: Off: 91-80-3383142 Fax: 91-80-3202345 Res: 91-80-5275273</p>

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17	<p>Dr. Anup Mohta Associate Professor, Department of Surgery, University College of Medical Sciences & GTB Hospital. <u>Residence:</u> 28-B, Pocket-C, SFS Flats, Mayur Phase-III, Delhi 110 096 India.</p>	<p>Professional</p> <ul style="list-style-type: none"> • MS, M.Ch. (Paediatric Surgery) • Neonatal and Paediatric Surgery • 15 publications in International and National journals and 2 book chapters. • Teaching Under Graduates and Post Graduates <p>Personal</p> <ul style="list-style-type: none"> • Listening to music 	<p>mohtaanup@hotmail.com</p> <p>Tel: Off: 91-11-2286262 (Ext:530) Res: 91-11-2617893</p>
18	<p>Mr. Guru Prasad Mohanta Reader in Pharmacy, Department of Pharmacy, Annamalai University, Annamalai Nagar, 608 002. Tamil Nadu, India.</p>	<p>Professional</p> <ul style="list-style-type: none"> • Actively involved in research activities relating to appropriate drugs in the health care facilities. • Organising education programmes for pharmacy teachers and pharmacists. • Responsibility of organising Clinical Pharmacy services in the University's Teaching Hospitals. <p>Personal</p> <ul style="list-style-type: none"> • Reading 	<p>gpmohanta@yahoo.com</p> <p>Tel: Off: 91-4144-238432 Res: 91-4144-238431</p>

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19	<p>Dr. Nivedita Moulick Professor, Department of Medicine D2-11 Kinara Narayan Pujari Nagar, 358 AG Khan Road, Worli, Mumbai 400 018. India.</p>	<p>Professional</p> <ul style="list-style-type: none"> • Clinical research • Medical teaching technology • Have participated in Standard treatment guideline formation • To develop formulary for our hospital • Procurement of drugs through tender is being done at the institute. Assist in standardizing the operating procedure in a short way. • Likes to interact with medical students <p>Personal</p> <ul style="list-style-type: none"> • Looking after home and family • Social work • Charity work for the under privileged • T.V.(Discovery channel/ National Geographic) 	<p>ndmoulick@rediffmail.com</p> <p>Tel: Off: 91-22-4076381 (Ext : 238/239) Res: 91-22-4966320 Mobile: 982125753</p>

No.	Name	Professional and Personal Interests	Contact Details
20	<p>Mrs. Florence Amah Nkansah Pharmacy Manager, Incharge of Surgical Pharmacy, Ministry of Health / Korle-Bu Teaching Hospital, P.O.Box :AN 15700 Ghana</p>	<p>Professional</p> <ul style="list-style-type: none"> • Clinical pharmacist • Course co-ordinator, Distance learning Clinical Pharmacy Programme between Robert Gordon University (RUG), Scotland and MOH Ghana. • Training intern pharmacists in community and clinical pharmacy practice • Involved in reviewing national EDL and STG • Keen in RUD and clinical research in antibiotic use. <p>Personal</p> <ul style="list-style-type: none"> • Cooking • Reading • Listening to gospel music 	<p>sankans@yahoo.com Tel: Off: 233-24-271711 233-20-8153687 Fax: 233- 021-220742</p>
21	<p>Dr.Kyoung-Ho Park Associate Director, Department of Pharmacy Manager of Pharmacy Administration and Drug Information Centre, Inviting Professor, College of Pharmacy, Seoul National University Hospital, Seoul National University Hospital, Chairman of General Affairs committee of Korean Society of Health System Pharmacist, #28 Yongun-dong, Jongno-gu, Seoul,151-744 South Korea</p>	<p>Professional</p> <ul style="list-style-type: none"> • ADR Monitoring • Pharmacoepidemiology • Pharmacodinamics • Drug Information Service (Rational Drug Use) • Medical Informatics <p>Personal</p> <ul style="list-style-type: none"> • Playing golf • Music • Movies • Like to have international network to communicate similar concerns 	<p>pkh58@snuh.org Tel : 82-2-760-2591 Fax: 82-2-766-1443</p>

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22	<p>Mr. SD Rajendran Professor of Pharmacy Practice, Dept of Pharmacy Practice, JSS College of Pharmacy, Rocklands, PB No.20 Ootacamaund 643 001, Tamil Nadu, India.</p>	<p>Professional</p> <ul style="list-style-type: none"> • Professor of pharmacy practice at JSS College of Pharmacy ,Ootacamund • Holding honorary position of Clinical pharmacist in Govt. Head Quarters Hospital, Ootacamund. • Pioneer in introducing Clinical pharmacy in Tamil Nadu. As an academician guided 16 postgraduate students, published 17 papers in national and 6 papers in international journals. • Member, Faculty of pharmacy, the Tamil Nadu Dr. MGR Medical University, Chennai • President, Indian Pharmaceutical Association, The Nilgiris <p>Personal</p> <ul style="list-style-type: none"> • Reading • Music • Table Tennis 	<p>sdrajendran@hotmail.com</p> <p>Tel: Off : 91-423-443393 Fax:91-423-442937 Resi: 91-423-447899</p>
23	<p>Dr. Arunabha Ray Professor & Head Department of Pharmacology VP Chest Institute, University of Delhi, PO Box 2101, New Delhi – 110007 India.</p>	<p>Professional</p> <ul style="list-style-type: none"> • Clinical Pharmacology (Teaching and Research) • To promote the concepts of Clinical Pharmacology by teaching and research • To initiate DTC activities in my parent organization / Institute / Hospital <p>Personal</p> <ul style="list-style-type: none"> • Sports • Politics • Music 	<p>arunabha14@yahoo.co.in</p> <p>Tel: Off: 91-11-7662155 Fax: 91-11-7667420 Res: 91-11-6894484</p>

No.	Name	Professional and Personal Interests	Contact Details
24	Dr. Gopal Sachdev Professor of Medicine Maulana Azad Hospital, New Delhi, India.	Professional <ul style="list-style-type: none"> • Rational Drug Use – Promotion among colleagues, juniors and students • Teaching Personal <ul style="list-style-type: none"> • Music • Travel • Cooking 	gopalsachdev@vsnl.com Tel: Off: 91-11-3236437 Res: 91-11-7492125/7496479
25	Dr. Akhilesh Kumar Sharma Senior Divisional Medical Officer 1403, Wallace Apartments, Sleater Road, Grant Road (West), Mumbai – 400 007, India.	Professional <ul style="list-style-type: none"> • Medical Specialist, JR Hospital, Mumbai Central, Mumbai. • Incharge: Medical store, Hospital infection Control Committee • Jt. Secretary, Association of Physicians of India, Mumbai Chapter. • Publication in National Journals. • Postgraduate teacher-Medicine • Non-invasive cardiology • Critical Care Medicine Personal <ul style="list-style-type: none"> • Sports • Photography 	akhil_sharmakgmc@yahoo.com Tel: Off: 91-22-3095801 Res: 91-22-3803434/3802530

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26	<p>Dr. Meena Shrivastava Professor & Head, Dept. of Pharmacology, Indira Gandhi Medical College, Nagpur 440 018. Maharashtra. India</p>	<p>Professional</p> <ul style="list-style-type: none"> • Drug utilization studies in outdoor and indoor patients. Utilization studies of AMA analgesics, antiulcers and vitamins. • Drug expenditure studies. • Human psychopharmacological agents. • Editor of drug information bulletin "Pharmacon" • Chairperson of Drug Purchase Committee and Antibiotic Policy Committee at IGMC, Nagpur, India. • Secretary – Clinical Pharmacology of Indian Pharmacological Society (IPS) • Organizer of National Conference of IPS for January 2002. • Organizer CMES etc related to Clinical Pharmacy. • Co-ordinator of MEDICAL EDUCATION UNIT, Regional Centre of MUHS, Nashik. • Organizer and faculty of various workshops and training programmes in TEACHING TECHNOLOGY. <p>Personal</p> <ul style="list-style-type: none"> • 1 yr diploma on IRPM (Industrial Relation and Personal Management) • Reading, Music, Painting 	<p>meena_shrivastava@yahoo.co.in drmeenashrivastava@rediffmail.com</p> <p>Tel: Off: 91-0712-728625 (ext 306) Fax: 91-0712-728028</p>

No.	Name	Professional and Personal Interests	Contact Details
27	<p>Ms. Suliman Mohd. Ali Manal Hospital Pharmacist Ministry of Health, Khartoum State, Directorate of Pharmacy and Medical Supplies, Khartoum PO Box : 659 Sudan-Moh- Kh-State, Sudan</p>	<p>Professional</p> <ul style="list-style-type: none"> • Sr. Pharmacist in hospital Management pharmacy in hospital • Make order of Drugs and get to the small store of hospital • Put the timetable to the staff of Pharmacy • Supervisor for the Drugs storage, disposing, use etc. • Make meeting with other staff in hospital every week • Discussion of drug problem every month Ministry of Health <p>Personal</p> <ul style="list-style-type: none"> • Music • Reading • Cooking 	<p>salahjawher@hotmail.com</p> <p>Tel: Off : 00-249012204628 Fax : 013373601</p>
28	<p>Dr. Liao Xiaoyang Department of Clinical Epidemiology, West China Hospital, Sichuan University, Room 205, The Eight Teaching Building, Chengdu, Sichuan 610 041, <i>People's Republic of China.</i></p>	<p>Professional</p> <ul style="list-style-type: none"> • Cardiology (M.D.) Clinical Epidemiology (M.Sc) • Health research related to human being community-based Cardiovascular Research / RDU / Ethics • Evidence-based medicine • Teacher for UG's and PG's 	<p>liao Xiaoyang@sohu.com</p> <p>Tel: Off : 86-28-85422082 Fax: 86-28-85542774</p>

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Annex 3

Drug and Therapeutics Committee
Training Schedule

Training Schedule			
Date	Time	Topic	Facilitator
Sept 22	3:00pm-6:00pm	Registration	
	7:00pm-9:00pm	Opening Dinner	
Sept 23	8:30am – 10:00am	Welcome and Introductions	Urmila Thatte
	10:00am –12:30pm	DTC Overview	Kathy Holloway
	12:30pm-2:00pm	Lunch	
	2:00pm- 5:00pm	Formulary Management	Terry Green
Sept 24	8:30am – 12:30 pm	Assessing Drug Efficacy	Paul Arnow
	12:30pm-2:00pm	Lunch	
	2:00pm-4:30pm	Assessing and managing Drug Safety	Terry Green
Sept 25	8:30am-11:30am	Drug Quality	Sri Suryawati
	11:30am-12:30pm	Assessing Drug Cost	Kathy Holloway
	12:30pm-2:00pm	Lunch	
	2:00pm-3:30pm	Assessing Drug Cost (cont)	
	3:30pm-5:00pm	Drug Information	Terry Green
Sept 26	8:30am-12:30pm	Identifying Drug Use Problems	Urmila Thatte
	12:30pm-2:00pm	Lunch	
	2:00pm-4:30pm	Identifying Drug Use Problems (part 2)	Kathy Holloway
Sept 27	8:30am-12:30pm	Why Drug Use Problems Occur	Urmila Thatte, Sri Suryawati
	12:30pm-2:00pm	Lunch	
	2:00pm-4:30pm	Strategies to Improve Drug Use	Usha Gupta

Sept 28	8:30am- 1:00pm	Standard Treatment Guidelines	Paul Arnow
Sept 29	Off		
Sept 30	8:30am-12:30pm	DUE	Kathy Holloway
	12:30-2:00pm	Lunch	
	2:00pm-4:30Pm	Infection Control	Paul Arnow
	7:30-9:30pm	Getting Started	Kathy Holloway
Oct 1	8:30-5:00pm	Field Study	
Oct 2	8:30-11:30am	Field Study Presentations	
	11:30-12:30pm	Workplans	Terry Green
	2:00pm-4:30pm	Workplans	

Annex 4 DTC Training Course Evaluation

Individual session rating:

DTC Session	Average Score (Scale 1-9)
DTC Overview	8.1
Formulary Management	7.8
Assessing Drug Efficacy	8.2
Assessing and Managing Safety	7.6
Assessing Quality	8.2
Assessing Cost	8.1
Drug Information	7.3
Identifying Drug Use Problems (I)	8.3
Identifying Drug Use Problems (II)	8.2
Understanding Drug Use problems	8.2
Strategies to Improve Drug Use	7.4
Standard Treatment Guidelines	8.2
Drug Use Evaluation	8.3
Infection Control	7.9
Getting Started	7.8
Field Study	8.1

Course Evaluation Summary

General	Score out of 9
1. The objectives were clearly defined at the beginning of the training course:	8.3
2. The defined objectives were achieved by the end of the training course:	8.3
3. The amount of material covered in the one weeks was appropriate:	8.3
4. The depth of coverage of the material in the training course was appropriate:	8.4
5. The information in this course will be helpful in my work:	8.4
6. Overall I would say that the difficulty level of the training course was just right:	Just right (26) Too Hard (1)
7 and 8 – see below	
Instructors/Trainers	
9. Overall, I would say the quality of the instruction was:	8.4
Overall Opinion	
10. This course was valuable and I will recommend it to my colleagues:	Yes (all participants)
Overall, how satisfied were you with the following:	
11. The training facilities:	8.6
12. The pace of the course:	7.9
13. The style and format of the sessions:	8.4
14. The instructional materials:	8.5
15. The length of the training course:	7.7

Questions 7 and 8 - Numbers thinking which sessions were most and least useful to their work

SESSION	MOST USEFUL	LEAST USEFUL
Drug and Therapeutics Committee Overview	8	1
Formulary Management	9	7
Assessing Drug Efficacy	2	7
Assessing and Managing Drug Safety	2	5
Drug Quality Assurance	4	8
Evaluating the Cost of Pharmaceuticals	6	7
Identifying Drug Use Problems (part I and II)	16	1
Understanding the Problems Associated with Drug Use – Qualitative Methods	3	2
Strategies to Improve Drug Use – Overview	3	0
Strategies to Improve Drug Use – Standard Treatment Guideline	3	3
Strategies to Improve Drug Use – Drug Use Evaluation	9	1
Drug Information	4	5
Infection Control	4	15

Suggestions and comments from course evaluation

Question 16 Recommendations for improving the training course

Shorten to 7 days, extend DI, more drug use studies
 Discuss each individual hospital situation and how to correct
 Condense to one week
 More activities, more time for field visit
 Select participants according to their problems. Select from 1 Category
 Some sessions need more time (FM,STG)
 increase activities, form new groups frequently
 Should be adjusted to 7 days
 Give PP slides to participants,
 Condense to 1 week
 Course is too long, shorten where possible
 A short follow up refresher course with evaluation of achievements
 Field work could have more in depth
 Overall very good, interactions between participants and facilitators was appreciated

Question 17 Additional comments

Excellent overall

Pleasurable experience

Share rooms between local and foreign participants

Hospitality, accommodations, meals-excellent

Organizers team did well, hotel very good, but too far from town

Hospitality, assistance by organizers immeasurable

Excellent course, all efforts from facilitators and local organizers were taken

Follow up course is necessary

Very well organized/comfortable stay. Very cooperative assisting participants

More people should be trained so that resistance will be less. Good interaction because all the participants

Good course, interactive sessions, training of DTC members is important for better implementation

THANKS!!

Very comprehensive course, impetus for participants to propagate the concept

Annex 5

Request for Country Clearance

TO: Dr. Victor Barbiero
Ms. Bethanne Moskov

FROM: Management Sciences for Health (MSH)/Rational Pharmaceutical Management Plus (RPM Plus) Program, Cooperative Agreement # HRN-A-00-00-00016-00

SUBJECT: Request for Country Clearance for travel to Mumbai, India for Terry Green and Paul Arnow September 21- October 3, 2002

COPY: Anthony Boni/Global HPSR/CTO RPM
Marni Sommer, USAID

2. The RPM Project wishes to request country clearance for proposed travel to Mumbai, India by Senior Program Associates Terry Green and Paul Arnow for the period September 21 to October 3, 2002

3. Background

Infectious diseases continue to present a serious threat to countries worldwide where scarcity of resources is complicated by lack of drug availability and inappropriate use of the available drugs. Antimicrobial resistance (AMR) develops as a result of inappropriate prescribing and use of antimicrobials. USAID funded Rational Pharmaceutical Plus (RPM Plus) Program of Management Sciences for Health (MSH) has been working in developing countries worldwide to introduce Drug and Therapeutics Committees (DTC) as a method of managing the selection of appropriate drugs and improving drug use. This will serve as a means to improve drug selection, prescribing, and use and decrease or contain the spread of antimicrobial resistance (AMR). DTCs are considered a key intervention in the WHO Global Strategy to contain antimicrobial resistance in hospitals.

As part of the course, three to four hospitals in Mumbai will be visited to allow a field study of DTC concepts. The purpose of these visits is to familiarize the participants with data collection on prescribing and dispensing practices for specific conditions that need admission to the hospital.

RPM Plus will work in collaboration with WHO/EDM, WHO/SEARO and the Delhi Society for Promoting Rational Use of Drugs. Planning of the course has been undertaken by all four organizations and sponsorship of participants will be provided by each group.

4. Purpose of Proposed Visit:

The purpose of the trip is to conduct a nine day Drug and Therapeutics Committee (DTC) Training Course for members of hospital drug and therapeutic committees, Ministry of Health officials, and for professionals at academic institutions. The event is programmed to take place at the BYL Nair Charitable Hospital in Mumbai.

5. Scope of Work for the team is as follows:

- Terry Green
 - Act as co-director of the DTC course
 - Provide instruction and facilitation of DTC principles and practices
 - Provide theoretical concepts and hands on practical exercises in teaching this course
 - Develop post-course monitoring and evaluation plan
 - Brief/debrief USAID officials if requested

- Paul Arnow
 - Provide instruction and facilitation for DTC course sessions, activities and field visits
 - Provide theoretical concepts and hands on practical exercises in teaching this course

6. Anticipated Contacts:

Dr. Victor Barbiero, USAID/India

Bethanne Moskov/India

Dr. Ranjit Roy Chaudhury, WHO-India Essential Drugs Programme

Dr. Urimla Thatte, Maharashtra WHO- India Essential Drugs Programme

Kathy Holloway, WHO/EDM

6. Logistics: Paul Arnow and Terry Green will arrive in Mumbai September 21, 2002 on Delta Flight # 118 at 11:40pm and will depart at 1:50am on Delta Flight 119 at 1:50am. Both will be staying at the designated course hotel, Aksa Beach.

7. Funding:

The in-country work proposed will be paid for with RPM Plus AMR Global funding.

8. Action: Please inform RPM Plus program whether country clearance is granted for the activity to take place as proposed. Please reply via e-mail to the attention of Anthony Boni, USAID/G/PHN/HN/HPSR, e-mail address: aboni@usaid.gov, tel (202) 712-4789, fax (202) 216-3702. Please send copies to Marni Sommer at msommer@usaid.gov, Douglas Keene at dkeene@msh.org and Fiona Abolade at fabolade@msh.org. We appreciate your cooperation.