

**The Dartmouth-Boston University AIDS International Research and Training Program (AITRP) presents**

## **Tuberculosis in the Era of HIV**

**March 15-17, 2004**

**The Courtyard Hotel  
Dar es Salaam, Tanzania**

### **Course Description**

This 3 day tuberculosis course is designed both for those with a clinical/programmatic focus (Track 1) and those with a laboratory focus (Track 2). The complete course outline is given below. The objectives are to strengthen basic skills and to introduce new concepts in diagnosis, treatment, prevention and control of tuberculosis in the era of HIV. In addition, participants will learn techniques and approaches to critical research issues in tuberculosis.

Day 1 will be devoted lectures on key topics of interest to all participants. On days 2 and 3, participants in Track 1 will have additional lectures on research topics and then divide into groups to develop proposed research studies to address critical issues in tuberculosis. On days 2 and 3, participants in Track 2 will move to a laboratory setting for lectures and practical demonstrations of basic and advanced techniques in the microbiology of tuberculosis. Faculty will include specialists in HIV and tuberculosis from Tanzania, the United States, and Finland. The course is sponsored by the Fogarty International Center of the National Institutes of Health (US) in conjunction with Dartmouth Medical School, Boston University School of Public Health, Muhimbili University College of Health Sciences, and the National Public Health Institute of Finland.

### **Who should attend?**

Physicians, clinical officers, laboratory technicals and directors, and other allied health professionals with an interest in the latest advances in research, treatment, and laboratory procedures for HIV and TB in Tanzania.

### **Faculty**

#### **Course Directors**

**C. Fordham von Reyn, MD**

Professor of Medicine and Chief, Section of Infectious Disease and International Health, Dartmouth Medical School, USA

**Kisali Pallangyo, MD, MMed**

Principal and Professor of Medicine, Muhimbili University College of Health Sciences, Tanzania

#### **United States**

**Lisa Adams, MD**

Instructor, Department of Community & Family Medicine, Dartmouth Medical School  
TB Consultant, Doctors of the World

C. Robert Horsburgh, MD, MUS

Professor of Epidemiology, Biostatistics and Medicine and Chair, Department of Epidemiology,  
Boston University School of Public Health

Richard Waddell, DSc

Assistant Professor of Medicine, Section of Infectious Disease & International Health, Dartmouth  
Medical School

### Tanzania

Muhammad Bakari, MD, MMed

Senior Lecturer, Department of Internal Medicine, Muhimbili University College of Health Sciences  
(MUCHS)

S. M. Egwaga, MD

Programme Manager, National Tuberculosis & Leprosy Programme

Mecky Matee, DDS, PhD

Senior Lecturer, Department of Microbiology & Immunology, MUCHS

Lillian Mtei, MD

Clinical Study Director, DARDAR Health Project, MUCHS

### Finland

Marja-Leena Katila, PhD

Department of Clinical Microbiology, Kuopio University Hospital

Hanna Soini, PhD

Director, National Mycobacterial Reference Laboratory, National Public Health Institute

## Course Schedule

### Monday, March 15, All Participants (Courtyard Hotel)

Time	Topic	Faculty
8:45-9:00	Introduction	Kisali Pallangyo Ford von Reyn
9:00-9:40	Tuberculosis in Tanzania: epidemiology and DOTS	S. M. Egwaga
9:40-10:20	HIV in Tanzania: epidemiology and ARV	Pallangyo
10:20-10:40	<i>Break</i>	
10:40-11:20	Clinical features of HIV-associated tuberculosis	von Reyn
11:20-12:00	Microbiology of tuberculosis	Mecky Matee
12:00-13:00	<i>Lunch</i>	
13:00-13:40	Treatment of tuberculosis	C. Robert Horsburgh
13:40-14:20	Tuberculosis control programs	Lisa Adams
14:20-15:00	<i>Break</i>	
15:00-15:40	Communication between the clinician and laboratory	Marja L. Katila
15:40-16:20	TB strain typing	Hanna Soini

**Tuesday, March 16, Track 1: Clinical, Programmatic and Research Issues  
(Courtyard Hotel)**

<b>Time</b>	<b>Topic</b>	<b>Faculty</b>
9:00-9:40	TB screening at VCTs	Lillian Mtei
9:40-10:20	HAART and TB	Muhammad Bakari
10:20-10:40	<i>Break</i>	
10:40-11:20	Trial design: TB vaccines	von Reyn
11:20-12:00	Trial design: TB treatment	Horsburgh
12:00-13:00	<i>Lunch</i>	
13:00-13:40	Informed consent	Richard Waddell
13:40-14:20	Trial design: TB control programs	Adams
14:20-15:00	<i>Break</i>	
15:00-16:00	Statistical analysis	Horsburgh
16:00-16:40	Presentation of case studies	
	1. TB vaccine trial	von Reyn and Mtei
	2 TB program evaluation	Adams and Matee
	3. TB/HIV treatment	Horsburgh and Bakari
16:40-17:30	Initial meeting of 3 case groups	

**Tuesday, March 16, Track 2: Laboratory Procedures (Courtyard Hotel)**

<b>Time</b>	<b>Topic</b>	<b>Faculty</b>
9:00-9:15	Opening remarks and introductions	Matee and Mr. Kilale
9:15-10:00	Overview of the Tanzanian situation with special reference to the lab's role in anti-tuberculosis work	Matee
10:00-10:20	Laboratory safety issues	Soini
10:20-10:40	<i>Break</i>	
10:40-11:10	Laboratory safety issues (continuation)	Soini and Matee
11:10-12:00	Collection, storage and shipment of specimens including storage of isolates for future testing	Katila
12:00-13:00	<i>Lunch</i>	
13:00-13:40	Detection of TB under the microscope: pitfalls in making smears, staining and microscopy	Katila
13:40-14:20	Decontamination and homogenization procedures	Soini
14:20-15:00	<i>Break</i>	
15:00-15:40	Reading cultures and identification of growth	Katila
15:40-16:20	Estimating laboratory reagents and supplies	Matee

**Wednesday, March 17**

**Track 1: Clinical, Programmatic and Research Issues (Courtyard Hotel)**

<b>Time</b>	<b>Topic</b>	<b>Faculty</b>
9:00-10:00	Discussion groups alone	All Track 1 faculty
	Group 1	
	Group 2	
	Group 3	
10:00-10:40	Discussion groups with faculty	
10:40-11:00	<i>Break</i>	
11:00-12:00	Discussion groups alone	
12:00-13:00	<i>Lunch</i>	
13:00-13:30	Group 1 presentation	
13:30-14:00	Group 2 presentation	
14:20-15:00	Group 3 presentation	
15:00- 15:20	<i>Break</i>	
15:20-16:20	Critique of group presentations	
16:20-17:00	Conference summary and closing remarks	von Reyn & Pallangyo

**Track 2: Laboratory Methods, TB Laboratory (Muhimbili National Hospital)**

<b>Time</b>	<b>Topic</b>	<b>Faculty</b>
9:00-10:20	Drug susceptibility testing: methodology and interpretation of results	Soini
10:20-10:40	<i>Break</i>	
10:40-11:20	Media preparation: internal control & external assessment procedures in the TB laboratory	Katila
11:20-12:00	Molecular methods	Soini
12:00-13:00	<i>Lunch</i>	
13:00-14:40	Demonstration of laboratory techniques	Matee and working group
14:20-15:00	<i>Break</i>	
15:00-16:40	Continuation of techniques and maintenance of microscopes	Matee and other faculty
15:40-16:20	Summary of the day's work & discussions	All Track 2 faculty & attendees

## How to Register

There are no fees for this course but advanced registration is required by 1 MARCH 2004. You may register by email to Ms. Susan Gregg at [Susan.L.Gregg@Dartmouth.EDU](mailto:Susan.L.Gregg@Dartmouth.EDU).

Required information for registration includes:

- Your full name and job title (e.g., physician, laboratory tech, etc.)
- Your employer's name

- Contact information (email address, mobile phone number)

If you have other questions, you may contact Dr. Mecky Matee at MUCHS. His phone number is 0741 411 497 and his email is [mmatee@muchs.ac.tz](mailto:mmatee@muchs.ac.tz)