

# RECAP HIV-TB Coinfection: New Vision, New Direction

July 25, 2006 Rio de Janeiro, Brazil

Veronica Miller, PhD Director, FCHR July 23, 2007 Sydney, Australia

Forum for Collaborative HIV Research

School of Public Health & Health Services

The George Washington University



### **HIV-TB Coinfection: Meeting the Challenge**

A roundtable discussion organized by the \*Forum for Collaborative HIV Research and the TB/HIV Working Group of the Stop TB Partnership

in collaboration with

\*Agence Nationale de Recherches sur le Sida (ANRS)

\*Bill andMelinda Gates Foundation,

\*Consortium to Respond Effectively to the AIDS/TB Epidemic (CREATE),

The European and Developing Countries Clinical Trials Partnership
Programme EDCTP)
\*International AIDS Society,
National Institutes of Health
\*Tibotec

Forum for Collaborative
HIV Res\*Provided financial support for this program

School of Public Health & Health Services

The George Washington University



### Symposium Planning Committee

- Dick Chaisson; Johns Hopkins University and CREATE
- Jean-Francois Delfraissy; ANRS
- Mamadou Diallo; International AIDS Society
- Lois Eldred; Johns Hopkins University and CREATE
- Haileyesus Getahun; WHO Stop TB Partnership
- Mark Harrington; Treatment Action Group
- Diane Havlir; UCSF and HIV-TB Working Group
- Barbara Laughon; Division of AIDS/NIH
- Karen Manson; Tibotec
- Charles Mgone: EDCTP
- Veronica Miller; Forum for Collaborative HIV Research
- Renee Ridzon; Bill & Melinda Gates Foundation





- Meagan Lyon
- Ben Cheng
- Nyasha Bakare
- Mamadou Diallo





- WHO TB/HIV Research Priorities, February 14-15, 2005: <a href="http://www.who.int/tb/events/tbhiv">http://www.who.int/tb/events/tbhiv</a> meetings/en/index.html
- June 2005; Boston MA
  - CFAR (University of Pennsylvania and Harvard University)
  - http://www.hms.harvard.edu/aids/index.htm
- July 2005; Rio de Janeiro3<sup>rd</sup> IAS Conference on HIV Pathogenesis, Treatment & Prevention Symposium
  - Symposium (Forum & Partners)
  - Research Discussion Roundtable
     <a href="http://www.hivforum.org/projects/HIVTB.htm">http://www.hivforum.org/projects/HIVTB.htm</a>
- July 2006; Toronto, Ontario XVI International AIDS Conference
- HIV and TB in the context of universal access: What is working and what is not? WHO Stop TB Partnership <a href="http://whqlibdoc.who.int/hq/2007/WHO\_HTM\_TB\_2007.382\_eng.pdf">http://whqlibdoc.who.int/hq/2007/WHO\_HTM\_TB\_2007.382\_eng.pdf</a>
- WHO HIV-TB Working Group sponsored meeting with key HIV researchers during CROI 2007

Forum for Collaborative HIV Research

School of Public Health & Health Services

The George Washington University

### The Journal of Infectious Diseases

15 August 2007 Volume 196 Supplement 1



### TUBERCULOSIS AND HIV COINFECTION

Current State of Knowledge and Research Priorities

INTRODUCTION

- Introduction: Tuberculosis and HIV Coinfection: Current State of Knowledge and Research Priorities Gerald Friedland, Gavin J., Churchward, and Edward Nardell
- Tuberculosis and HIV Coinfection: Genesis of the Supplement and Sponsors' Contribution James A. Hoxle, Veronica Miller, and Bruce Walker
- Tuberculosis and HIV Infection: The Global Paul Nunn, Alasdair Reid, and Kevin M. De Cock
- S15 Facing the Crisis: Improving the Diagnosis of Tuberculosis in the HIV Era Mark D. Perkins and Jane Cunningham
- S28 New Tuberculosis Therapeutics: A Growing Pipeline MeMn K. Spigelman
- S35 Treatment Options for HIV-Associated Tuberculosis Philip Chukwuka Onyebujoh, Isabela Ribeiro, and Christopher Curtis Whalen

Anne E. Goldfeld, and Jean-François Delfraissy

- Treatment Strategies for HIV-Infected Patients with Tuberculosis: Ongoing and Planned Clinical François-Xavier Blanc, Diane V. Haviir, Philip C. Onyebujoh, Sok Thim,
- Tuberculosis Preventive Therapy in the Era of HIV Infection: Overview and Research Priorities Gavin J. Churchyard, Fablo Scano, Allson D. Grant, and Richard E. Chaisson

- S63 Complications of Antiretroviral Therapy in Patients with Tuberculosis: Drug Intera Toxicity, and Immune Reconstitution Inflammatory Syndrome Helen McIlleron, Graeme Meintles, William J. Burman, and Gary Maartens
- S76 Diagnostic and Management Challenges for Childhood Tuberculosis in the Era of B. J. Marais, S. M. Graham, M. F. Cotton, and N. Beyers
- HIV Infection and Multidrug-Resistant Tuberculosis-The Perfect Storm Charles D. Wells, J. Peter Ceglelsid, Lisa J. Nelson, Kayla F. Laserson, Timothy H. Holtz, Alyssa Finlay, Kenneth G. Castro,
- S108 Tuberculosis Infection Control in Resource-Care and Treatment
- Program Collaboration and Integration: 3 Cas Studies Gerald Friedland, Anthony Harries, and David Coetzee
- S124 Tuberculosis and HIV Infection: Partners in Human Tragedy

### Tuberculosis and HIV Coinfection: Current State of Knowledge and Research Priorities

#### Gerald Friedland, 1 Gavin J. Churchyard, 4.5.6 and Edward Nardell<sup>2,3</sup>

'AIDS Program, Section of Infectious Diseases, Departments of Internal Medicine and Epidemiology and Public Health, Yale University School of Medicine, New Haven, Connecticut: "Division of Social Medicine and Health Inequalities, Brigham and Women's Hospital, Harvard Medical School, and "Partners In Health, Boston, Massachusetts; "Aurum Institute for Health Research, Marshalltown, and "Centre for AIDS Programme of Research in South Africa (CAPRISA), University of KwaZulu Natal, Durban, South Africa; London School of Hygiene and Tropical Medicine, London, United Kingdom

- Limited Settings in the Era of Expanding HIV Naomi N. Book, Paul A. Jensen, Bess Miller, and Edward Nardell
- S114 Implementation Issues in Tuberculosis/HIV
- John G. Bartlett

SUPPLEMENT ARTICLE

FORWARD

### Tuberculosis and HIV Coinfection: Genesis of the Supplement and Sponsors' Contribution

#### James A. Hoxie, 1,2 Veronica Miller,3 and Bruce Walker4,5

Department of Medicine and Penn Center for AIDS Research, University of Pennsylvania, Philadelphia; Forum for Collaborative HIV Research, George Washington University, Washington, DC; 'Department of Medicine, Harvard University, and 'Harvard Center for AIDS Research, Cambridge, Massachusetts

Forum for Collaborative HIV Research

School of Public Health & The George Washington University



### Brief re-cap of Rio de Janeiro Discussion

- Research priorities were outlined during symposium session
- Roundtable discussion focused on pediatric HIV-TB and family program approaches
- Coordination & networking: perspective from programs on the ground
- Coordination & networking: perspective from sponsors, funders & agencies

# Confronting the problem through an integrated research agenda

- Provide a platform for maximizing the research efforts through synergy, integration and collaboration
- Can we put together a global road map including all disciplines and constituencies?
  - TB and HIV "communities", basic science, clinical science, trials and open access programs, health economists, policy makers, regulatory agencies, etc etc
- Best use of what we have today; better tools for tomorrow
- Let's get started!
  - Toronto 2006?





## Some discussion highlights

# HIV IS A FAMILY DISEASE TB is a Family Disease

Almost inevitably, when you identify an individual with HIV or TB you will find that other members of his or her family and/or household also have HIV or TB

Forum for Collaborative HIV Research

Health Services
The George Washington
University

# Opportunities and Challenges

### **Families**

- Case finding for HIV
- TB case finding
- TB in children
- INH preventive therapy (children and HIV infected individuals)

## Research Opportunities

- TB incidence and prevalence in cohorts and among household members with introduction of ARV/HIV care
- Potential additive benefit/tolerability of INH preventive therapy to ART
- Prevention of TB in households
- Early diagnosis of TB in HIV -infected patients
- Tolerability of HIV/TB medications in women and pregnant women
- Pharmacokinetics of HIV/TB medications in pregnant women and children
- Evaluation of adherence interventions
- others



### Discussion highlights

- INH preventive therapy
  - Somehow the message is not getting out
  - IPT not implemented due to fear of development of drug resistance
  - Concern not founded in science: extensive available data indicates that this concern is unfounded
  - Why is this message not getting out?



### Discussion highlights

- "Integration" is a problematic word
  - Clear understanding of the separate mission and goals of TB and HIV programs
  - In some cases, integration works well
  - In other cases, it's more a matter of collaboration
- Need to look at different models in different settings
- Better use of program (e.g. GFATM) to support research: availabilities are not being taken advantage of

Forum for Collaborative HIV Research



### This evening....

- You are all here because of your expertise & interest
- Everyone participates in the discussion
- Forum rules:
  - Open, honest, dialogue
  - Differences of opinion are welcome
  - Many constituencies represented: leave your "hat" at the door, bring your experience and critical thinking to the discussion
  - Moderated discussion
    - Identified individuals to get discussion started
    - Discussion not limited to those listed on the agenda



# Please speak into the microphone: we need the recording to generate a report of this meeting