
World TB Day 2016

Global is Local: Opportunities and Challenges for TB Elimination in New York City



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Treatment Action Group

STONY WOLD-
HERBERT FUND

 **CAPRISA**
GRANTED FOR THE AIDS PROGRAMME OF RESEARCH IN SOUTH AFRICA

AGENDA

8:30 - 9:00

COFFEE AND PASTRIES

9:00 - 9:25

WELCOME AND OVERVIEW OF THE CONFERENCE

Neil W. Schluger, MD

Professor of Medicine, Environmental Health Sciences, and Epidemiology; Chief, Pulmonary, Allergy, and Critical Care Medicine; Columbia University

Mary T. Bassett, MD, MPH

Commissioner, New York City Department of Health and Mental Hygiene

Max O'Donnell, MD, MPH

Assistant Professor of Medicine and Epidemiology; Columbia University

9:25 - 10:15

THE GLOBAL TB EPIDEMIC 2015

E. Jane Carter, MD

President of the International Union Against Tuberculosis and Lung Disease; Associate Professor of Medicine; Director of Brown Kenya Program; Brown University Warren Alpert Medical School

10:15 - 10:45

THE STATE OF TB IN NEW YORK CITY 2015

Joseph Burzynski, MD, MPH

Assistant Commissioner and Director, Bureau of Tuberculosis Control; New York City Department of Health and Mental Hygiene

10:45 - 11:00

COFFEE

11:00 - 12:00

ENGAGING THE PATIENT AND COMMUNITY IN TB PREVENTION: LEARNING FROM DRUG-RESISTANT TB HIV OUTBREAKS IN NEW YORK CITY AND SOUTH AFRICA

FACILITATOR

Jennifer Zelnick, MSW, ScD

Associate Professor, Touro College; Graduate School of Social Work

Wafaa El-Sadr, MD, MPH, MPA

University Professor of Epidemiology and Medicine; Mathilde-Krim-amfAR Professor of Global Health; Director, ICAP; Columbia University

Gerald H. Friedland, MD

Professor of Medicine and Epidemiology; Yale University

Nesri Padayatchi, MBChB, MSc

Deputy Director; Centre for the AIDS Programme of Research in South Africa (CAPRISA)

12:00 - 12:10

LOUDER THAN TB

Joanna Breitsstein

Senior Director, Communications; TB Alliance

Anne Detjen, MD

Childhood TB Specialist, United Nations Children's Fund (UNICEF)

12:10 - 1:20

LUNCH AND OPTIONAL CASE-BASED BREAKOUT PANELS

SESSION A: MDR-TB

Sundari Mase, MD, MPH

Division of Tuberculosis Elimination, National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention; Centers for Disease Control and Prevention

Felicia F. Dworkin, MD

Deputy Director, Medical Affairs; Bureau of Tuberculosis Control; New York City Department of Health and Mental Hygiene

Briana Short, MD

Postdoctoral Fellow, Pulmonary/Critical Care; Columbia University

AGENDA

SESSION B: TB HIV

Eric Leibert, MD
Associate Director, Bellevue Chest Service;
Director of Bronchoscopy, Bellevue Hospital
Center; Director of Bronchoscopy, Tisch
Hospital

Max O'Donnell, MD, MPH
Assistant Professor of Medicine and
Epidemiology; Columbia University

Ewa Rakowski, MD
Postdoctoral Fellow, Pulmonary/Critical Care;
New York University

SESSION C: EXTRAPULMO- NARY AND CNS TB

Kiran Thakur, MD
Assistant Professor of Neurology;
Columbia University

A. Ross Hill, MD
Pulmonary & Critical Care Medicine, SUNY
Downstate Medical Center at Brooklyn;
Medical Director, DOT Program for TB; Kings
County Hospital Center

Nicholas Morris, MD
Postdoctoral Fellow, Neurology;
Columbia University

Audrey Daggan, MD
Postdoctoral Fellow, Pulmonary/Critical Care;
Columbia University

SESSION D: BEHAVIORAL AND SOCIAL SCIENCE/TB CASE MANAGEMENT

Christine Chuck, MPA
Director, Field Operations; Bureau of
Tuberculosis Control; New York City
Department of Health and Mental Hygiene

Marian Loveday, MPhil, PhD
Specialist Scientist; South African Medical
Research Council

Paul Colson, PhD, MSW
Associate Research Scientist, ICAP;
Columbia University

1:20 - 2:00 COMMUNITY-BASED APPROACHES TO TB OUTBREAKS: RESPONSE IN NEW YORK CITY

Jeanne Sullivan Meissner, MPH
Public Health Epidemiologist, Bureau
of Tuberculosis Control, New York City
Department of Health and Mental Hygiene

2:00 - 3:00 PATIENT-CENTERED CARE IN TB: SETTING THE AGENDA

FACILITATOR Yael Hirsch-Moverman, PhD, MPH
Assistant Professor of Epidemiology (in
ICAP); Columbia University

Mike Frick, MSc
TB/HIV Project Officer,
Treatment Action Group (TAG)

Joseph Burzynski, MD, MPH
Assistant Commissioner Director, Bureau
of Tuberculosis Control; New York City
Department of Health & Mental Hygiene

Marian Loveday, MPhil, PhD
Specialist Scientist, South African Medical
Research Council

J. Lucian (Luke) Davis, MD, MAS
Associate Professor, Department of
Epidemiology of Microbial Diseases; Yale
School of Public Health; Pulmonary, Critical
Care, and Sleep Medicine Section;
Yale School of Medicine

3:00 - 3:30 SCIENTIFIC CHALLENGES: IMPLICATIONS OF MYCOBACTERIAL PERSISTENCE FOR TB PREVENTION

William R. Jacobs, PhD
Professor of Genetics and Microbiology &
Immunology; Albert Einstein College of
Medicine

3:30 - 4:00 CONTROVERSIES IN GLOBAL TB: IMPLICATIONS FOR TB ELIMINATION IN NEW YORK CITY

Neil W. Schluger, MD

4:00 WRAP UP AND FAREWELL

PARTICIPANTS



MARY T. BASSETT, MD, MPH

Commissioner, New York City
Department of Health and Mental
Hygiene

Dr. Bassett was appointed Commissioner of Health of New York City in February 2014. Her focus is on ensuring that every New York City neighborhood supports the health of its residents, with the goal of closing gaps in population health across this diverse city. Originally from New York City, Dr. Bassett lived for nearly 20 years in Zimbabwe. Previously, she was a Program Director for the African Health Initiative and the Child Well-being Program at the Doris Duke Charitable Foundation. She completed her medical residency at Harlem Hospital Center, and has a master's degree in Public Health from the University of Washington.



JOANNA BREITSTEIN

Senior Director, Communications
TB Alliance

Ms. Breitstein is the Senior Director, Communications, of TB Alliance, a not-for-profit organization with the mission of discovering and developing improved TB drugs for all. She joined the organization in 2009. In her role, Ms. Breitstein is responsible for charting the organization's communications strategy in support of TB Alliance's mission. She also serves as the point person for the Louder than TB campaign, a coalition of cross-sector partners working to raise awareness and promote integration, innovation, and investment in TB. Before joining TB Alliance, Ms. Breitstein was the Executive Editor of Pharmaceutical Executive, a healthcare magazine. She is also the Co-founder and Board Member of The International HUG Foundation, a 501c3 organization with the mission of helping vulnerable children in Uganda.



JOSEPH BURZYNSKI, MD, MPH

Assistant Commissioner and Director,
Bureau of Tuberculosis Control
New York City Department of Health
and Mental Hygiene

Under Dr. Burzynski's guidance, the Bureau of TB Control continues to implement innovative policies and procedures to prevent the spread of TB and to eliminate it as a public health problem in NYC. Dr. Burzynski has worked as the Physician in Charge in many Bureau of TB Control chest centers, most recently in Corona, Queens. Since 2000, he has been a co-investigator in the Tuberculosis Trials Consortium. In his work at the Tuberculosis Trials Consortium, he served for 6 years on the Core Science Committee.



E. JANE CARTER, MD

President of the International Union
Against Tuberculosis and Lung
Disease
Associate Professor of Medicine;
Director of Brown Kenya Program;
Brown University Warren Alpert
Medical School

Dr. Carter's training is in Pulmonary and Critical Care, but the emphasis of her clinical practice for the last 25 years has been in tuberculosis. She has worked domestically as the Medical Director of the RITB Clinic from 1990-2007 and as a senior consultant in the RI clinic until 2013. She served on the Advisory Committee for the Elimination of TB at CDC, completing that term this year and is a member of the National TB Controller's Association and STOP TB USA. Internationally, Dr. Carter has worked in Kenya for 16 years, presently as the TB/HIV technical consultant for USAID AMPATH (Eldoret, Kenya) and as the PI of TB Reach (Wave 2- year 1 and 2) which concentrates on active community based TB case finding, pediatric contact investigation and expansion of TB GenXpert diagnostics through western Kenya. She is presently serving on the proposal review committee for TB Reach at WHO, the TB technical committee of the Global Fund Against HIV, TB and Malaria, and the TB Modeling and Analysis consortium. She also serves as a medical consultant at the Global Tuberculosis Institute at Rutgers, The State University of New Jersey. She is the current president of the International Union Against TB and Lung Disease.



CHRISTINE CHUCK, MPA

Director of Field Operations
Bureau of TB Control
New York City Department of Health
and Mental Hygiene

Ms. Chuck is responsible for Citywide management of all reported TB cases from diagnosis to treatment completion. She provides oversight to the City's sizable directly observed therapy (DOT) program, contact investigation, and case management of suspected and confirmed TB cases. She headed a team of TB experts in the development, piloting and subsequent full-scale implementation of synchronous (live-streaming) and asynchronous (recorded) video directly observed therapy (VDOT) in NYC. She is focused on increasing the use of technology in TB control as a mechanism to optimize delivery of care to patients. Ms. Chuck holds a Master's degree in Public Administration from Baruch College and has worked in public health for over 25 years in a variety of capacities. She has extensive knowledge of TB control and has hosted health care partners from the national and international arena on best practices in TB control.



PAUL COLSON, PhD, MSW

Associate Research Scientist
ICAP at Columbia

Dr. Colson holds Masters and Doctoral degrees in social work from the School of Social Service Administration, University of Chicago. He has an overarching interest in the delivery of health and mental health services for disadvantaged populations, including behavioral and systemic issues which impact service use. From 2000 to 2012, he served as Program Director for the Charles P. Felton National Tuberculosis Center, a CDC-funded "model tuberculosis center" under the direction of Dr. Wafaa El-Sadr. He has conducted several studies of knowledge and attitudes toward tuberculosis and Latent TB Infection (LTBI) with the foreign-born, African-Americans, and other population groups. Dr. Colson has served as a co-investigator in two NIH-funded RCTs of peer interventions to increase adherence to LTBI treatment. Through the CDC-funded TB Epidemiologic Studies Consortium, he worked with Dr. Yael Hirsch-Moverman to conduct prospective and retrospective studies of acceptance and completion of LTBI treatment.



AUDREY DAGGAN, MD

Postdoctoral Fellow,
Pulmonary/Critical Care
Columbia University

Dr. Daggan earned her MD from Tuft's University School of Medicine and completed a residency in internal medicine at the University of Pennsylvania. She is now a postdoctoral fellow in pulmonary and critical care medicine at Columbia University.



J. LUCIAN (LUKE) DAVIS, MD, MAS

Associate Professor, Department of
Epidemiology of Microbial Diseases,
Yale School of Public Health
Pulmonary, Critical Care, and Sleep
Medicine Section, Yale School of
Medicine

Dr. Davis is a pulmonary/critical care physician and epidemiologist at the Yale School of Public Health and the Yale School of Medicine. His research focuses on improving tuberculosis (TB) diagnosis in resource-constrained settings. One line of research employs "systems epidemiology" – combining clinical epidemiology and systems biology - to identify novel biomarkers for active TB diagnosis and treatment monitoring. The second line of research employs implementation science to design, introduce, and evaluate mobile health interventions to improve clinic and community-based active TB case finding. Two overriding objectives of the research are to develop approaches to TB evaluation that are more patient-centered, and to provide training opportunities for junior investigators at international sites.



ANNE DETJEN, MD

Childhood TB Specialist
United Nations Children's Fund
(UNICEF)

Dr. Detjen joined UNICEF in 2015 to develop strategy and programming for childhood TB as integrated part of UNICEF's work around strengthening community and primary health systems, and to increase advocacy and awareness for childhood TB in the broader maternal and child health space. Prior to this she was a consultant in child lung health for the International Union Against Tuberculosis and Lung Disease (The Union). Trained in pediatrics in Germany she has worked in childhood TB for over ten years. She spent two years at the Desmond Tutu TB Centre in Cape Town, South Africa focusing on TB diagnosis in children. With the Union, she led the development of the childhood TB learning portal and childhood TB online training course (<https://childhoodtb.theunion.org/>), and worked with The Union and NTP Uganda to implement routine TB contact screening at the community level. She is a member of the core team of the WHO Childhood TB subgroup.



FELICIA DWORKIN, MD, FCCP

Deputy Director, Medical Affairs
Bureau of Tuberculosis Control
New York City Department of Health
and Mental Hygiene

Dr. Dworkin has been with the New York City Department of Health and Mental Hygiene, Bureau of Tuberculosis Control for the past 16 years, having held several clinic and field medical positions. Since 2004, she has been the Deputy Director of Medical Affairs, assisting in the development of TB policies and procedures, providing direct patient care, as well as being an expert medical consultation on all aspects of tuberculosis. She is also responsible for the oversight of treatment and management for all drug resistant cases in NYC, including MDR and XDRTB patients. Additionally, she coordinates the bureau's relationship with the public health laboratories in NYC and NYS, as well as other laboratories, and has an extensive understanding in aspects of molecular & drug susceptibility testing for TB as well as supervises false positive investigation. She has extensive knowledge and experience in management & therapy related issues surrounding difficult TB cases.



WAFAA EL-SADR, MD, MPH, MPA

University Professor of Epidemiology and Medicine
Mathilde-Krim-amfAR Professor of Global Health
Director, ICAP at Columbia University

Dr. El-Sadr leads ICAP at Columbia University and the Global Health Initiative at the Mailman School of Public Health. Dr. El-Sadr's interests include: HIV/ AIDS, tuberculosis maternal/child health, capacity building and health systems strengthening. Her work bridges interest and commitment to local and global public health challenges and an appreciation of the breadth of issues needed to transform the health of populations. She has extensive research experience and leads the NIH-funded HIV Prevention Trials Network. Through ICAP, the center she established more than a decade ago, she has led the efforts that enabled the establishment of large-scale programs in 20 countries in Africa and Asia that link research, education, training and practice. She received her medical degree from Cairo University in Egypt, a masters in public health from Columbia School of Public Health (in Epidemiology) and a masters in public administration from Harvard University's Kennedy School of Government. Her scholarly work has appeared in leading scientific journals. She was named a MacArthur Fellow in 2008 and a member of the National Academy of Medicine in 2009.



MIKE WATSON FRICK, MSc

Treatment Action Group

Mike Frick is the TB/HIV project officer at Treatment Action Group, an independent AIDS research and policy think tank fighting for better treatment, a vaccine and a cure for AIDS and its two major co-infections, tuberculosis and hepatitis C. Mike holds a bachelor's degree in international studies and Chinese from Kenyon College and a master of science degree in global health and population from the Harvard School of Public Health.



GERALD H. FRIEDLAND, MD

Professor of Medicine and
Epidemiology
Yale University

Dr. Friedland has worked in clinical and clinical and epidemiologic research and care of people living with HIV, AIDS and TB since 1981. During the past decade this has included work in KwaZuluNatal, South Africa addressing issues in HIV/TB integration and MDR and XDRTB epidemiology, care and treatment. He is Professor of Medicine and Epidemiology and Public Health at the Yale School of Medicine and Adjunct Professor at the Mailman School of Public Health at Columbia.



ROSS HILL, MD, CM

Pulmonary & Critical Care Medicine,
SUNY Downstate Medical Center at
Brooklyn
Medical Director, DOT Program for TB
Kings County Hospital Center

A native of Maine, Dr. Hill received his university and medical education at McGill University, Montréal, Québec. After subspecialty training in Respiratory Medicine at McGill, he was a Parker B. Francis Fellow at the University of Virginia. In 1984 Dr. Hill joined the faculty of SUNY Downstate Medical Center at Brooklyn, where he has pursued a varied menu of activities in patient care, medical education, and clinical research. His teaching and administrative roles have included program director, Fellowship in Pulmonary & Critical Care Medicine (2003–); director, Respiratory Block for 2nd-year medical students (2003-13); design team for the Cardiovascular-Respiratory-Renal Unit in the College of Medicine's renewed curriculum (2013–); and member, DMC IRB (1992–). Since 1984 Dr. Hill's clinical practice has been based at Kings County Hospital Center, Brooklyn's largest healthcare facility, where he has served as medical ward and MICU attending, consultant in respiratory medicine, and director of the Adult Chest Clinic (1992-2010). His involvement in tuberculosis care has proved particularly rewarding. He initiated KCHC's Directly Observed Therapy Program for TB in 1993 and continues as its medical director.



**Yael Hirsch-Moverman, PhD,
MS, MPH**

Assistant Professor of Epidemiology
(in ICAP)
Columbia University

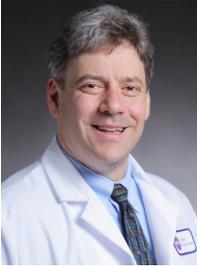
Dr. Hirsch-Moverman has an MS in Operations Research from Columbia University's School of Engineering and Applied Science and an MPH and PhD in epidemiology from Columbia's MSPH. She has vast experience in conducting epidemiologic and implementation science research, specifically in designing, conducting, and analyzing interventions to improve adherence and retention in TB/HIV programs. She is co-investigator of two implementation science cluster randomized trials that evaluate interventions to improve TB/HIV adherence in Ethiopia and Lesotho. She was recently awarded an NIH Mentored Research Scientist Development Award to evaluate a community-based intervention for the prevention of childhood TB in Lesotho.



William R. Jacobs, Jr., PhD

Professor of Genetics and
Microbiology & Immunology
Howard Hughes Medical Institute
Investigator
Albert Einstein College of Medicine

Dr. Jacobs is pioneering the use of molecular genetics to control tuberculosis (TB), identifying the genes that make *Mycobacterium tuberculosis* virulent, identifying new drug targets and engineering weakened strains that can be used as live vaccines. He was the first scientist to introduce foreign DNA into MTB, a technique now regularly used by TB investigators around the world. Since then he has discovered new ways of killing MTB that could also lead to a therapy to prevent drug-resistant TB strains from developing. He also devised an onsite lab test that not only can quickly diagnose TB but can also distinguish treatable TB strains from those that are drug resistant—a process that ordinarily takes months. Dr. Jacobs also assisted in a groundbreaking partnership between HHMI and the University of KwaZulu-Natal in South Africa; which has established an international research center that will contribute to the worldwide effort to control the TB-HIV co-epidemic and train a new generation of scientists in Africa. Dr. Jacobs, in collaboration with Dr. Betsy Herold at Einstein, has recently developed a promising vaccine candidate against Herpes viruses. He believes his work on Herpes will hold the key to finally developing an effective vaccine for TB and other infectious diseases.



ERIC LEIBERT, MD

Associate Director, Bellevue Chest Service
Director of Bronchoscopy, Bellevue Hospital Center
Director of Bronchoscopy, Tisch Hospital

Dr. Leibert graduated from Columbia College of Physicians and Surgeons. He completed Internal Medicine residency in the NYU/Bellevue program and Pulmonary and Critical Care Medicine fellowship at NYU. For three years he was Medical Manager of the Queens Network of the New York City Department of Health and Mental Hygiene, Bureau of Tuberculosis Control. He is an Associate Professor of Medicine at NYU School of Medicine, Associate Director of the Bellevue Department of Chest Medicine, and Director of Bronchoscopy at Bellevue and Tisch Hospitals. He directs the inpatient Chest Service and weekly TB conferences, and works closely with BTBC on the tuberculosis detention unit at Bellevue. Dr. Leibert's areas of particular interest include challenges in TB diagnosis, management of drug-resistant TB and introduction of new TB drugs.



MARIAN LOVEDAY, MPhil, PhD

Specialist Scientist
South African Medical Research Council

Dr. Loveday has 15 years experience in health systems research, and research in TB, drug-resistant-TB and HIV, and operations. She recently completed her doctorate at the University of KwaZulu-Natal, focusing on the evaluation of a pilot project in which she compared the management of MDR-TB patients at decentralised sites with care at a centralized hospital. She has assisted in the adaptation of an audit tool to monitor the effectiveness of TB/HIV/STI services in rural districts in KwaZulu-Natal Province, assisted in a retrospective record review to develop a profile of XDR-TB patients in South Africa, and conducted a case study assessing the implementation of TB services at a regional/district hospital, including three of its feeder clinics. Her current efforts also include assisting the Department of Health to monitor programmatic performance of the MDR-TB treatment centers. She assisted in both the conceptualization and completion of the framework on decentralised MDR-TB treatment, and is currently a member of the expert advisory group meeting for the National Department of Health on Drug-Resistant TB.



SUNDARI R. MASE, MD, MPH

Medical Team Lead, Field Services and Evaluation
Division of Tuberculosis Elimination,
National Center for HIV/AIDS, Viral Hepatitis, STD, and TB Prevention
Centers for Disease Control and Prevention
Clinical Assistant Professor of Infectious Disease
Emory University

NICHOLAS MORRIS, MD

Postdoctoral Fellow, Neurology
Columbia University

Dr. Mase received her undergraduate from the University of California, Berkeley (UCB) and her medical degree from the University of California, San Francisco (UCSF). She finished her residency in Internal Medicine at UCSF and, subsequently obtained her Master's in Public Health with an emphasis in Epidemiology at UCB. She practiced as an Internist for five years before launching her career in public health as a medical officer with the State of California. In this role, she implemented the CA multidrug-resistant tuberculosis (MDR TB) consultation service. She then served as an MDR TB consultant for the western region of the United States after which she became the TB controller for Santa Clara County. She was then recruited to join CDC to serve in her current position. Dr. Mase has a longstanding interest in global TB activities. She provides medical consultation and technical assistance for challenging MDR TB cases, contacts and investigations, designs and implements research studies, and writes guidelines and policies. She recently published a manuscript on treatment outcomes of contacts to MDR TB cases and has submitted a manuscript on the pharmacokinetics of levofloxacin in children. She is the CDC chair for the recently approved joint ATS/IDSA/ERS/CDC national MDR TB guidelines.

Dr. Morris is a graduate of Harvard Medical School. He completed his neurology residency at Partners Healthcare (Brigham and Women's Hospital and Massachusetts General Hospital), preceded by medicine internship at Beth Israel Deaconess Hospital. He is currently completing a fellowship in neurocritical care at Columbia/Cornell Medical Centers. His research interests include the use of simulation for education in neurological emergencies and the use of invasive brain monitoring techniques to study neurophysiology in subarachnoid hemorrhage.



MAX O'DONNELL MD, MPH

Assistant Professor of Medicine and
Epidemiology
Columbia University

Dr. O'Donnell is an academic pulmonologist and assistant professor of medicine and epidemiology at Columbia University Medical Center. His research interests range from laboratory-based biomarker discovery to clinical and qualitative research focused on the field of drug-resistant tuberculosis. His South African collaborators are K-RITH and CAPRISA where he is a Research Associate. He also works as a volunteer physician at a New York City DOHMH Chest Center for TB Evaluation and Treatment.



NESRI PADAYATCHI, MBChB, MSc

Deputy Director, Centre for the AIDS
Programme of Research in South
Africa (CAPRISA)
Lecturer, Department of Community
Medicine
Nelson Mandela School of Medicine,
University of KwaZulu-Natal

Dr. Padayatchi is a lecturer in the Department of Community Medicine at the Nelson Mandela School of Medicine. She has more than 30 years clinical and research experience in the management of TB and related problems. She served as the South African Principal Investigator for the Columbia University-Southern African Fogarty AIDS International Training and Research Programme. She serves on the South African National and Provincial Advisory Board for MDR-TB. She is a member of ASSAf. She was the eThekweni Clinical Research Site leader from 2006 to 2013 as well as the CAPRISA Principal Investigator for ACTG.



EWA RAKOWSKI, MD

Postdoctoral Fellow, Pulmonary/
Critical Care
New York University

Dr. Rakowski is a second year fellow at New York University Langone Medical Center. She completed her internal medicine residency and chief residency at Montefiore - Albert Einstein Medical Center.



NEIL W. SCHLUGER, MD

Professor of Medicine, Epidemiology,
and Environmental Health Sciences
Division Chief, Pulmonary, Allergy,
and Critical Care Medicine
Columbia University

Dr. Schluger, a practicing pulmonologist, began his career at the height of New York City's tuberculosis epidemic. While working at Bellevue Hospital in the early 1990s, he collaborated with the New York City Department of Health to craft an effective public health response to the TB crisis. After joining the faculty at Columbia, he conducted a landmark study examining tuberculosis transmission in New York City that was published in *The New England Journal of Medicine*. He is currently researching risks for drug-susceptible and drug-resistant tuberculosis in Kazakhstan. Dr. Schluger has been an active clinical investigator in tuberculosis for over 20 years, and has served as a principal investigator in the U.S. Centers for Disease Control and Prevention's Tuberculosis Trials Consortium since its inception. He is the author of more than 150 articles, chapters and books, and his work has been published in the most prestigious journals in his field. Dr. Schluger is a past-president of the American Lung Association of New York, and he has served as an advisor to the Bill and Melinda Gates Foundation. He is the Chief Scientific Officer for World Lung Foundation (WLF) and founder and director of the East Africa Training Initiative, a WLF-sponsored program that trains pulmonary physicians in Ethiopia.



BRIANA SHORT, MD

Postdoctoral Fellow, Pulmonary/
Critical Care
Columbia University

Briana Short is a second year Pulmonary and Critical Care Fellow at Columbia. She completed her residency at University of Maryland in Baltimore where she also served as Chief Resident. She graduated from medical school at Loyola University in Chicago. Prior to her medical training she completed her Master's degree in Latin American Studies.



JEANNE SULLIVAN MEISSNER, MPH

Public Health Epidemiologist
Bureau of Tuberculosis Control
New York City Department of Health
and Mental Hygiene

Dr. Sullivan Meissner is the Team Lead for Outbreak Detection and Response at the New York City Department of Health and Mental Hygiene's Bureau of Tuberculosis Control, where she oversees the reporting, management, and analysis of genotyping data and all aspects of cluster prioritization and investigation, outbreak detection, and outbreak response. She leads epidemiologic investigations in non-household settings and conducts quantitative and qualitative research on TB epidemiology, genotyping methods and application, contact investigation, outbreak detection and response, health disparities, and TB in foreign-born communities. She works closely with the Bureau's Office of Outreach and numerous internal and external partners to develop and implement community-based strategies to identify and interrupt TB transmission, identify and eliminate barriers to care, and increase healthcare access in NYC. Jeanne participates in an advisory role on several national workgroups, including the CDC's TB Outbreak Detection Workgroup, and co-chairs the Outbreak sub-committee of the National TB Controller's Association Society for Epidemiology in TB Control.



KIRAN THAKUR, MD

Assistant Professor of Neurology
Columbia University

After residency training at Harvard Medical School, Dr. Thakur completed a post-doctoral fellowship in neuroinfectious diseases and neuroimmunology at the Johns Hopkins Hospital. She has worked in several countries treating patients with TB meningitis, and conducting research. Dr. Thakur is a co-investigator of the NIH-funded study in India and Malawi evaluating the optimal antituberculosis medication regimen to improve tuberculous meningitis outcomes in children. Dr. Thakur has served on the neurology collaborative science group of the AIDS clinical trials group, is co-president of the applied research group in neuroinfectious diseases of the World Federation of Neurology, and performs epidemiological studies with the World Health Organization.



JENNIFER ZELNICK, MSW, ScD

Associate Professor
Book Review co-editor, *Journal of Sociology and Social Welfare*
Chair, Social Welfare Policy Sequence
Touro College Graduate School of Social Work

Jennifer Zelnick MSW, ScD is an Associate Professor & Social Welfare Policy Chair at the Touro College Graduate School of Social Work. Her research focuses on the impact of drug-resistant TB and HIV on lives of health care workers in South Africa. She is the author of “Who is Nursing Them? It Is Us”: Neoliberalism, HIV/AIDS and the Occupational Health and Safety of South African Public Sector Nurses, and has conducted qualitative research on workplace safety and infection control in the context of drug-resistant TB. She collaborates with social work faculty in Durban, South Africa around social welfare policy and workforce issues.

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