
Vaccines and the public's health: History, culture, and science



AGENDA

1:00 - 1:05 **WELCOMING REMARKS**

1:05 - 1:35 **GLOBAL BURDEN OF PREVENTABLE DISEASE**

Stephen Morse, PhD
Professor of Epidemiology
Columbia University

1:35 - 1:40 **BRIEF Q&A**

1:40 - 2:10 **DEVELOPMENT, EVALUATION AND INTRODUCTION OF NEW VACCINES INTO ROUTINE IMMUNIZATION PROGRAMS: SAFETY CONSIDERATIONS**

Luis Jodar, PhD
Global Vice President and Head of the Vaccines Medical Development Group and Medical/Scientific Affairs
Pfizer, Inc.

2:10 - 2:15 **BRIEF Q&A**

2:15 - 2:45 **TECHNOLOGIC INNOVATIONS IN PROMOTING IMMUNIZATION**

Melissa Stockwell, MD, MPH
Associate Professor of Pediatrics and Population & Family Health;
Medical Director, New York- Presbyterian Hospital Immunization Registry
Columbia University

2:45 - 2:50 **BRIEF Q&A**

2:50 - 3:05 **COFFEE**

3:05 - 3:45 **THE HISTORY OF VACCINES AND THE CURRENT SOCIAL AND CULTURAL CONTEXT OF THE ANTI-VACCINE MOVEMENT**

Paul Offit, MD
Maurice R. Hilleman Professor of Vaccinology and Professor of Pediatrics;
Director, Vaccine Education Center
University of Pennsylvania

3:45 - 3:50 **BRIEF Q&A**

3:50 - 4:20 **ETHICAL QUESTIONS POSED BY MANDATORY VACCINATION**

Ronald Bayer, PhD
Professor of Sociomedical Sciences;
Co-Director, Center for the History and Ethics of Public Health
Columbia University

4:20 - 4:25 **BRIEF Q&A**

4:25 - 4:50 **MODERATED DISCUSSION**

MODERATOR Wafaa El-Sadr, MD, MPH
University Professor;
Director, ICAP;
Director, Global Health Initiative
Columbia University

4:50 - 5:00 **CLOSING REMARKS**

Neil Schluger, MD
Professor of Medicine, Epidemiology, and Environmental Health Sciences;
Division Chief, Pulmonary, Allergy, and Critical Care Medicine;
Interim Chair, Department of Epidemiology
Columbia University

HOST



NEIL W. SCHLUGER, MD

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

Neil W. Schluger, MD, a practicing pulmonologist and Interim Chairman for Columbia's Department of Epidemiology, 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's Mailman School of Public Health and the College of Physicians and Surgeons, 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 (CDC) Tuberculosis Trials Consortium (TBTC) 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. He serves on the editorial boards of *The American Journal of Respiratory and Critical Care Medicine*, the *Annals of the American Thoracic Society*, and *Chest*. 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.

PARTICIPANTS



RONALD BAYER, PhD

Professor of Sociomedical Sciences;
Co-Director, Center for the History
and Ethics of Public Health
Columbia University

Ronald Bayer, PhD, a sociomedical scientist, researches social justice and ethical matters related to AIDS, tuberculosis, illicit drugs, and tobacco. He is an elected member of the Institute of Medicine of the U.S. National Academy of Sciences, and has served on its committees dealing with the social impact of AIDS, tuberculosis elimination, vaccine safety, smallpox vaccination and the Ryan White Care Act. Dr. Bayer has been a consultant to the World Health Organization (WHO) on ethical issues related to public health surveillance, HIV, and tuberculosis. He is Chair of the WHO's Global Network of Collaborating Bioethics Centers. His articles have appeared in the *New England Journal of Medicine*, the *Journal of the American Medical Association*, *The Lancet*, the *American Journal of Public Health*, and *The Milbank Quarterly*.

His books include *Homosexuality and American Psychiatry: The Politics of Diagnosis* (1981), *Private Acts, Social Consequences: AIDS and the Politics of Public Health* (1989); *AIDS in the Industrialized Democracies: Passions, Politics and Policies* (1991, edited with David Kirp); *Confronting Drug Policy: Illicit Drugs in a Free Society* (1993, edited with Gerald Oppenheimer); and *Blood Feuds: Blood, AIDS and the Politics of Medical Disaster* (1999, edited with Eric Feldman); *AIDS Doctors: Voices from the Epidemic*, (2000, written with Gerald Oppenheimer and *Mortal Secrets: Truth and Lies in the Age of AIDS* (2003, written with Robert Klitzman) and *Unfiltered: Conflicts over Tobacco Policy and Public Health* (2004 Harvard University Press) (edited with Eric Feldman).

In 2001, Dr. Bayer was awarded an Investigator Award in Health Policy Research from The Robert Wood Johnson Foundation for his research on the history and politics of public health reporting.



WAFAA EL-SADR, MD, MPH, MPA

University Professor;
Director, ICAP;
Director, Global Health Initiative
Columbia University

Wafaa El-Sadr, MD, MPH, an epidemiologist and infectious disease expert, founded and directs ICAP, which works in sub-Saharan Africa, Central Asia, and the U.S. in partnerships with governmental and non-governmental organizations to strengthen in-country capacity for HIV prevention, care, and treatment and related health threats. More than two million individuals living with HIV have gained access to HIV services and more than one million have received access to life-saving antiretroviral therapy through ICAP programs. ICAP champions a family-focused approach using a multidisciplinary team of providers that work in conjunction with governmental and non-governmental organizations within countries.

Dr. El-Sadr has also led efforts to support the capacity of health systems through the many programs that ICAP has established. Her work has helped countless health systems across the globe effectively prepare for major health threats faced by communities with few resources. Dr. El-Sadr has led the design and implementation of numerous research studies that have furthered the understanding, prevention, and treatment of HIV, tuberculosis, and other infectious diseases and has spearheaded efforts to advance implementation research work around the world. For two decades, Dr. El-Sadr served as chief of the Division of Infectious Diseases at Harlem Hospital Center in New York City, where she was instrumental in developing a unique program that embodies a family-focused approach, uses multidisciplinary teams, and engages community members in research and program design.

In 2008, Dr. El-Sadr was named a John D. and Catherine T. MacArthur Foundation Fellow and, in 2009, she became a member of the National Academy of Medicine.



LUIS JODAR, PHARM.D, PhD

Global Vice President and Head of the Vaccines Medical Development Group and Medical/Scientific Affairs Pfizer, Inc.

Luis Jodar, Pharm.D, PhD, a neuroimmunologist and expert on vaccine development and commercialization, has worked in vaccine-related programs in more than 50 countries around the world. For the last seven years, he has been employed by the biopharmaceutical company Pfizer, Inc. Before that, Dr. Jodar was Deputy Director General at the International Vaccine Institute (IVI) in Seoul, Korea (an international organization established by the United Nations for the development, introduction, and use of new vaccines); an adjunct professor at Seoul National University, School of Public Health; and Director of the IVI Advanced Vaccinology Course for the Asia Pacific Region.

From 1996-2002, Dr. Jodar worked at the World Health Organization, leading vaccine research and the introduction of meningococcal vaccines, and activities related to adverse events allegations and quality, safety, and correlates of protection of vaccines against encapsulated bacteria. Prior to joining the WHO, he worked at the European Commission in Brussels as leader of the Task Force for Vaccines and Viral Diseases.

He has published in top peer-reviewed journals and served on a number of national and international vaccine advisory groups. He teaches vaccinology courses at the Institut Pasteur in France and the Anney Advanced Course of Vaccinology (ADVAC).

Among other honors, Dr. Jodar was awarded an Officer's Cross in the Order of Civil Merit from the King of Spain for his work on vaccines and vaccination in developing countries.



STEPHEN S. MORSE, PhD

Professor of Epidemiology
Columbia University

Stephen S. Morse, PhD, an epidemiologist who researches emerging infectious diseases, began his professional career as a microbiologist and virologist before joining Columbia's epidemiology faculty in 1996. From 2009-2014, he was global co-Director of PREDICT (a USAID project to strengthen global capacity for surveillance and detection of new infectious disease threats). Before that, Dr. Morse was a virology faculty member at The Rockefeller University from 1985-1995, and Program Manager for Biodefense at DARPA, the Defense Advanced Research Projects Agency, from 1995-2000.

He is the editor of two books, *Emerging Viruses* (1993), selected by *American Scientist* as one of "The Top 100 Science Books of the 20th Century", and *The Evolutionary Biology of Viruses* (1994). He was a founding section editor of the CDC journal *Emerging Infectious Diseases*, and Editor-in-Chief of the Pasteur Institute's virology journal. Dr. Morse is currently on the Editorial Board of several journals, including *Health Security and Viral Immunology*.

He is a lifelong member of the Council on Foreign Relations, and a Fellow of the AAAS, the American Academy of Microbiology, the American College of Epidemiology, the New York Academy of Medicine, and the New York Academy of Sciences (for which he was Chair of its Microbiology Section).

In 2014, Dr. Morse was appointed to the U.S. government's National Science Advisory Board for Biosecurity (NSABB).

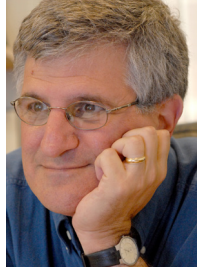


**MELISSA STOCKWELL, MD, MPH,
FAAP**

Associate Professor of Pediatrics and Population & Family Health;
Medical Director, New York-
Presbyterian Hospital Immunization
Registry
Columbia University

Melissa Stockwell, MD, MPH, FAAP, a pediatrician, has dedicated her career to addressing the needs of underserved children and adolescents, examining the causes of under-immunization, and assessing translational interventions to improve immunization rates via health technology and enhanced health literacy. She is the Florence Irving Associate Professor of Pediatrics and Population Family Health at Columbia University's College of Physicians and Surgeons and the Mailman School of Public Health; Medical Director of the New York-Presbyterian Hospital (NYP) Immunization Registry (EzVac); and Co-Director of the Columbia University Primary Care Clinician Research Fellowship in Community Health. She also practices as a pediatrician in an NYP-associated community clinic, serves on the New York City Department of Health and Mental Hygiene's Immunization Improvement Team, and is a regular collaborator with members of the Centers for Disease Control and Prevention. Dr. Stockwell earned her MD at Harvard Medical School and completed her residency in Pediatrics at Massachusetts General Hospital while serving as Chief Resident. She earned her master's degree in Public Health at Columbia University.

Dr. Stockwell researches translational health IT interventions to promote vaccination as well as the use of large-scale, patient-centered communication technologies, like text messaging, for surveillance of vaccine-preventable diseases and adverse events.



PAUL A. OFFIT, MD

Maurice R. Hilleman Professor
of Vaccinology and Professor of
Pediatrics;
Director, Vaccine Education Center
University of Pennsylvania

Paul A. Offit, MD, a pediatrician and infectious disease expert, co-invented a rotavirus vaccine called "RotaTeq" that saves hundreds of lives each day. Dr. Offit has published more than 160 papers in medical and scientific journals.

For his work developing RotaTeq, which the CDC recommends for universal use in infants, Dr. Offit received numerous honors, including the Luigi Mastroianni and William Osler Awards from University of Pennsylvania's medical school, the Charles Mérieux Award from the National Foundation for Infectious Diseases; and special recognition by Bill and Melinda Gates during the launch of their Foundation's Living Proof Project for global health.

In 2015, Dr. Offit was elected to the American Academy of Arts and Sciences. He is a founding advisory board member of the Autism Science Foundation and the Foundation for Vaccine Research.

Since 2005, he has published six medical narratives, including *Deadly Choices: How the Anti-Vaccine Movement Threatens Us All* (2011), which was selected by Kirkus Reviews and Booklist as one of the best non-fiction books of the year; *Do You Believe in Magic?: The Sense and Nonsense of Alternative Medicine* (2013), which won the Robert P. Balles Prize in Critical Thinking from the Center for Skeptical Inquiry and was selected by National Public Radio as one of the best books of 2013; and *Bad Faith: When Religious Belief Undermines Modern Medicine* (2015), selected by the New York Times Book Review as an "Editor's Choice" book in April 2015.

COLUMBIA UNIVERSITY EPIDEMIOLOGY
SCIENTIFIC SYMPOSIUM

 **COLUMBIA** | **MAILMAN SCHOOL**
UNIVERSITY | **of PUBLIC HEALTH** **EPIDEMIOLOGY**