



the medical center hour

Medicine & Society in Conversation

A program of the Center for Health Humanities and Ethics
University of Virginia School of Medicine

Provided by the University of Virginia School of Medicine and School of Nursing

Wednesday, March 6, 2024

12:00-1:00 p.m. (EST)

In Person at Pinn Hall Conference Center Auditorium

Zoom Webinar: <https://us02web.zoom.us/j/85229005887>

The Hayden-Farr Lecture in Virology and Epidemiology

Everything keeps changing! Lessons of COVID-19 for Pandemic Surveillance

Marc Lipsitch, DPhil (Speaker)

Professor of Epidemiology

Director, Center for Communicable Disease Dynamics

Harvard T. H. Chan School of Public Health

Costi D. Sifri, MD, FACP, FIDSA (Moderator)

Becton, Dickinson and Company Endowed Chair of Infectious Diseases and
International Health and Professor of Medicine, UVA School of Medicine

For the first half of this program, Prof. Lipsitch will describe a decision-focused notion of design for surveillance systems that are designed to detect, track, characterize, and tailor treatment or prevention of new pathogens and variants thereof, suggesting the key components of such a system. In the second half, he will describe work using health care databases in the US and Israel that provides examples of some of the potential to perform such surveillance and the accompanying challenges.

Resources:

1. What's next: using infectious disease mathematical modelling to address health disparities. Richard DM, Lipsitch M. *Int J Epidemiol.* 2024 Feb 01. 53(1). PMID: 38145617
2. Estimated excess deaths due to COVID-19 among the urban population of Mainland China, December 2022 to January 2023. Raphson L, Lipsitch M. *Epidemiology.* 2024 Jan 29. PMID: 38300113
3. JYNNEOS™ effectiveness as post-exposure prophylaxis against mpox: Challenges using real-world outbreak data. Rosen JB, Arciuolo RJ, Pathela P, Boyer CB, Baumgartner J, Latash J, Malec L, Lee EH, Reddy V, King R, Edward Real J, Lipsitch M, Zucker JR. *Vaccine.* 2024 Jan 25. 42(3):548-555. PMID: 38218669

Accreditation & Designation Statements



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Disclosure(s):

The following speakers and planning committee have no personal or professional financial relationships with a commercial entity producing healthcare goods and/or services. Speakers: Marc Lipsitch, DPhil, Costi Sifri, MD; Planning Committee: Jim Childress, PhD; Marcia Childress, PhD; R.J. Bonnie, LLB; R. Carpenter, DNP; Mary Faith Marshall, PhD; Justin Mutter, MD, MA; Kathryn Reid, PhD, APRN, FNP-BC, CNL; Lois Shepherd, JD.

Disclosure of faculty financial affiliations

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Disclosure of discussion of non-FDA approved uses for pharmaceutical products and/or medical devices

As a Joint Accreditation provider, the University of Virginia School of Medicine and School of Nursing, requires that all faculty presenters identify and disclose any off-label or experimental uses for pharmaceutical and medical device products. It is recommended that each clinician fully review all the available data on new products or procedures prior to clinical use.

Marc Lipsitch, DPhil is Professor of Epidemiology at the Harvard T. H. Chan School of Public Health. He directs the Center for Communicable Disease Dynamics and the Interdisciplinary Program on Infectious Disease Epidemiology. His scientific research concerns the effect of naturally acquired host immunity, vaccine-induced immunity, and other public health interventions on the population biology of pathogens and the consequences for human health. He has authored 400 peer-reviewed publications on antimicrobial resistance, epidemiologic methods, mathematical modeling of infectious disease transmission, pathogen population genomics, research ethics, biosafety/security, and immunoepidemiology of *Streptococcus pneumoniae*. Dr. Lipsitch is a leader in research and scientific communication on COVID-19. Dr. Lipsitch received his BA in philosophy from Yale and his DPhil in zoology from Oxford. He did postdoctoral work at Emory University and CDC. He is a member of the American Academy of Microbiology and the National Academy of Medicine.

Costi Sifri, MD is the Becton, Dickinson and Company Endowed Chair of Infectious Diseases & International Health at the University of Virginia School of Medicine in Charlottesville, Virginia, where he serves as the Director of Hospital Epidemiology/Infection Prevention and Control. Dr. Sifri received his medical degree from the University of Rochester, completed medicine residency at the University of Pennsylvania, and was a clinical and research fellow in infectious diseases and microbiology at the Massachusetts General Hospital, Brigham & Women's Hospital, and Harvard Medical School. He joined the faculty of the University of Virginia in 2004 with a clinical and research focus on healthcare-associated pathogens. In 2006, he also founded the UVA Immunocompromised Infectious Disease Program and in 2009 he was named as the Director of Hospital Epidemiology/Infection Prevention and Control. Dr. Sifri's research interests include the exploration of the molecular mechanisms of microbial pathogenesis and host defense, epidemiology of healthcare-associated multidrug resistant organisms, and the prevention of healthcare-associated infections.



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**Thank you for attending the
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