

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

Towards a Post-Pandemic World – Lessons from COVID-19 for Now and the Future

Virtual Workshop

SEPTEMBER 21ST – SEPTEMBER 24TH 2021

Workshop objectives:

This virtual workshop will host retrospective and prospective discussions on the broad ongoing impacts of the rapidly-evolving pandemic on human health and society. Presentations will explore new understandings, challenges, and emerging data for leaders in governments, public health systems, the private sector, and communities to consider in the ongoing pandemic response with a view towards enhancing resilience and preparedness for future outbreaks. Specifically, the workshop will feature invited presentations, panel discussions and breakout rooms on the following topics:

- Anticipated long-term impacts of the pandemic on health, both direct (physiological) and indirect (societal), at the individual and population level
- The impacts of COVID-19 on human health equity, taking into consideration the two-way relationship between health outcomes and structural or social determinants of health.
- Incorporating best practices and lessons learned from around the world to examine the role of social sciences in building a nuanced, transdisciplinary approach that strives to ensure equity in continued COVID-19 recovery efforts and mitigation of future emergent diseases
- Takeaways from the COVID-19 experience for leaders in government, communities, and the private sector on actionable and sustainable ways to collaborate, manage risk, build trust, and communicate effectively for public health, particularly in the context of uncertainty during public health emergencies
- The impact of dis- and misinformation and how it can be managed to maintain public trust and optimize adherence to health behavioral guidance in a time of crisis
- Ensuring lessons (re-)learned from COVID-19 are captured effectively in health systems that assure a more proactive approach to pandemic preparedness and response.

DAY 1 – TUESDAY, September 21st 2021
10:00 AM – 2:30 PM ET

- 10:00 AM **Welcome**
Peter Daszak, *chair, Forum on Microbial Threats*
President
EcoHealth Alliance
- 10:10 AM **Opening Remarks**
Victor Dzau, *President, National Academy of Medicine*
- 10:20 AM **Workshop Overview & Goals**
Elizabeth Hermsen, *workshop co-chair*
Head, Global Antimicrobial Stewardship and Health Equity in Infectious
Diseases
Merck & Co., Inc.
- Rafael Obregon, *workshop co-chair*
Country Representative in Paraguay
UNICEF

Keynote Addresses

- Kumanan Rasanathan, *session chair and moderator, World Health Organization*
- 10:30 AM **A Vision for the Future**
Helen Clark (co-chair, Independent Panel for Pandemic Preparedness and
Response)
- A Blueprint for a Whole-of-Society Approach to Health Care**
H.E. Hanan Al Kuwari (Minister of Public Health, Qatar; Managing
Director, Hamad Medical Corporation)
- 11:15 AM **Discussion** (45 min)
- 12:00 PM **BREAK** (30 min)

Session I: Long-Term Impacts of COVID-19 on Health Equity

Session objective: assess the current knowledge and outstanding questions on the consequences of COVID-19, identifying research priorities and implications for public health strategies – including gaps in systemic health equity.

- 12:30 PM **Pandemic Inequities in U.S. Health Care: Evidence and Solutions**
David Blumenthal (Commonwealth Fund)
- 12:45 PM **New Onset of Mental Health Conditions, Social Determinants of Health, and COVID-19: Evidence from a National Health Insurance Claims Database**
Mir M. Ali (U.S. Department of Health and Human Services, Assistant Secretary of Planning and Evaluation)
- 1:00 PM **Post-Acute COVID-19 Syndrome in the Pediatric Population and Strategies for the Next Phase**
Danilo Buonsenso (Fondazione Policlinico Universitario A. Gemelli IRCCS, Italy)
- 1:15 PM **Probing Disease Mechanisms of Long COVID**
Akiko Iwasaki (Yale University)
- 1:30 PM **Discussion (45 min)**
- In looking towards the future of health in the U.S. and ongoing issues related to COVID-19, identify areas for multidisciplinary problem solving in pandemic recovery and future capacity-building.
- 2:15 PM **Observations & Closing Comments**
Kumanan Rasanathan, *session chair*
- 2:30 PM **ADJOURN**

DAY 2 – WEDNESDAY, September 22nd 2021
10:00 AM – 2:30 PM ET

Session II: Addressing Uncertainties during a Pandemic

Session objective: identify actionable paths towards systemic change for encouraging public engagement and establishing trust in health crisis response (especially in times of scientific uncertainty).

10:00 AM **Welcome, Recap and Overview**
William Hallman, *session chair, Rutgers University*

Trust and Engagement in Pandemic Responses and Outcomes

10:10 AM **Theory Presentations** (*15 min each*)

Engaging for Equity: An Approach to Mitigating Pandemic Impact on the Underserved

Vish Viswanath (Harvard T.H. Chan School of Public Health)

Science Advice and Trust in the U.S. During the Pandemic

Roger Pielke, Jr. (University of Colorado, Boulder)

10:40 AM **Case studies** (*20 min each*)

Each of the case studies will:

- Illustrate how to establish and sustain trust in the context of rapidly changing scientific evidence base and how to engage with a broad audience in order to encourage healthy behavior and make informed decisions. What infrastructure were in place to support this? What gaps did you have to bridge? What are the critical unmet needs and who can address them?
- Connect the trust and status of the relationship between the public and authorities to how response strategies were shaped, public adherence of these policies, and the resulting case burden.

Case Study 1: Title TBD

Siouxsie Wiles (University of Auckland, New Zealand)

pre-recorded presentation

Case Study 2: Trust and Engagement in Pandemic/Epidemic Responses: Lessons from Ebola in Sierra Leone

Lawrence Sao Babawo (School of Community Health Sciences in the Department of Nursing, Njala University)

Case Study 3: Title TBD

Stephen Thomas (Center for Health Equity, University of Maryland)

11:40 AM **Discussion** (60 min)

12:40 PM **BREAK** (15 min)

Understanding and Addressing Misinformation on COVID-19

12:55 PM **Facts and Myths about Misinformation**

Brendan Nyhan (Dartmouth University)

1:15 PM **Panel Discussion** (60 min)

Panelists:

- Renée DiResta (Stanford University)
- Brendan Nyhan (Dartmouth University)
- Christine Prue (U.S. Centers for Disease Control and Prevention)
- Brian Southwell (RTI International)

2:15 PM **Observations & Closing Comments**

William Hallman, *session chair*

2:30 PM **ADJOURN**

DAY 3 – THURSDAY, September 23rd 2021
10:00 AM – 2:30 PM ET

Session III: Systematizing Recovery Efforts to Mitigate the Next Pandemic

Session objective: identify knowledge, technology and tools (as well as the persistent gaps in each) that have arisen during the COVID-19 pandemic, and discuss how they might be integrated more permanently into existing health systems to improve both the ongoing COVID-19 response efforts and capacity for future outbreak readiness.

10:00 AM **Welcome, Recap and Overview**
Chandy John, *session chair, Indiana University School of Medicine*

Community Engagement in Public Health

10:10 AM **The Pandemic As An Opportunity**
Eliseo J Pérez-Stable (National Institute of Minority Health and Health Disparities, National Institutes of Health)

10:30 AM **Q&A**

10:45 AM **Case Study Presentations (15 min each)**

Designing for Care Equity: Strategies from a Community COVID-19 Vaccination Clinic

Lauren Hahn (Penn Medicine Center for Digital Health)

NewYork-Presbyterian Center for Community Health Navigation: A Hospital-Community Partnership to Improve Community Health and Well-Being

Patricia Peretz and Adriana Matiz (NewYork-Presbyterian Center for Community Health Navigation)

An Equity Driven Approach to Incident Command Structure (ICS): Lessons from the New Mexico Department of Health Vaccine Team

Laura Chanchien Parajón and Miranda Durham (New Mexico Department of Health)

The Role of Community Engagement during the Pandemic: Lessons from the Paraguay Experience

Guillermo Sequera (Ministry of Public Health and Social Welfare,
Paraguay) (Ministerio de Salud Pública y Bienestar Social - Paraguay)

11:45 AM **Discussion** (45 min)

12:30 PM **BREAK** (15 min)

Toolbox for Recovery and Future Capacity-Building

12:45 PM **Panel Discussion** (30 min opening + 60 min discussion)

Moderator: Margaret Kruk (Harvard T.H. Chan School of Public Health)

Panelists:

- Simone Blayer (PATH): promises of the new vaccine platforms
- Joe DeRisi (Chan-Zuckerberg BioHub, UCSF): new diagnostic tools
- Syra Madad (New York City Health + Hospitals): social capital and trust in science during a crisis
- David Cutler (Harvard University): lessons from COVID-19 for health systems

2:15 PM **Observations & Closing Comments**

Chandy John, *session chair*

2:30 PM **ADJOURN**

DAY 4 – FRIDAY, September 24th 2021
10:00 AM – 2:30 PM ET

Session IV: Potentials for a Post-COVID World

Session objective: using lessons learned and guiding principles from the previous three sessions of the workshop, generate actionable strategies for preparing for and responding to future health crises.

10:00 AM **Welcome, Recap and Overview**
Matthew Zahn, *session chair, Orange County Health Care Agency*

10:10 AM **Visionary Statements** (*10 min each*)

Pandemic Preparedness: The Biomedical Research Approach
Anthony Fauci (National Institute of Allergy and Infectious Diseases)
pre-recorded presentation

COVID-19: What Went Wrong, Why It Did, and How We Can Do Better
Sandro Galea (Boston University)

10:30 AM **Guiding Statement on Strategic Planning Exercise**

10:45 AM **Strategic Planning Breakout Rooms** (*2.25 hours*)

Using the provided scenario narratives inspired by the actual lived experiences of public health leaders responding to the initial U.S. outbreak of COVID-19, provide a response strategy for the public health apparatus, researchers, the private sector, and policymakers, placing emphasis on efforts towards ensuring sustained community partnerships and health equity.

Room 1

Moderator: Matthew Zahn (Orange County Health Care Agency)

Participants:

- David Broniatowski (George Washington University)
- Laura Chanchien Parajón (New Mexico Department of Health)
- Ramanan Laxminarayan (University of Washington)

- Shari Ling (Center for Clinical Standards and Quality, Centers for Medicare and Medicaid Services)
- Patricia Peretz (New York-Presbyterian)

Room 2

Moderator: Stephen Thomas (State University of New York Upstate Medical University)

Participants:

- Carolina Batista (Institute of Global Health, Barcelona)
- Micheal Burke (Department of Homeland Security)
- Anupam Bapu Jena (Harvard Medical School)
- Lindsey J. Leininger (Tuck School of Business at Dartmouth)
- Tonya Nichols (Environmental Protection Agency)

1:00 PM **BREAK** (30 min)

1:30 PM **Strategic Planning Session Recap**

2:15 PM **Workshop Closing Remarks**

Elizabeth Hermsen, *workshop co-chair*

Rafael Obregon, *workshop co-chair*

Peter Daszak, *chair, Forum on Microbial Threats*

2:30 PM **ADJOURN**