

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

**Systematizing the One Health Approach in Preparedness and Response
Efforts for Infectious Disease Outbreaks**

Virtual Workshop

AGENDA

FEBRUARY 23 - 25, 2021

Objectives:

This virtual meeting will examine ways to systemize and integrate the One Health approach as part of outbreak prevention, detection, preparedness, and response efforts. The workshop will explore research opportunities, multisectoral, One Health collaboration mechanisms, community engagement strategies, educational opportunities, and policies that can effectively implement the core capacities and interventions of One Health principles to strengthen national health systems and enhance global health security.

Specifically, this workshop will feature invited presentations and discussions on the following topics:

- Strategies to systematize One Health in national prevention, detection, preparedness, and response efforts;
- A review of One Health programs integrated into national and global public health efforts to learn what programs are currently in effect;
- Integration of animal and human health surveillance systems for cross-reporting to better understand pathogens transmitted between animals and people;
- Feasibility of introducing and integrating One Health into existing coordination mechanisms, and into national action plans for health security based on the Joint External Evaluation;
- Strengthening the global health workforce with One Health capacities;
- Policies that underscore the interconnectedness of animal, plant, human, and environmental health;
- Implications of using a One Health approach to improve preparedness vs. a reactionary response that is required to create medical countermeasures after outbreak onset;
- Promising practices for engaging with communities and influencing behaviors that lower the risk of infectious disease infection through the One Health approach;
- The tension between public health needs, the private sector and data sharing within the One Health context in preparedness and response efforts; and
- Potential priority actions to unite organizations – public and private, domestic and international – in efforts to overcome newly discovered hurdles based on lessons learned from the COVID-19 pandemic.

Workshop speakers and discussants will contribute perspectives from government, academia, private, and nonprofit sectors.

WORKSHOP ON SYSTEMATIZING THE ONE HEALTH APPROACH IN PREPAREDNESS AND
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DAY 1 – TUESDAY, 23 February 2021
10:00 am – 1:00pm

10:00 AM **Welcome Remarks, Workshop Overview and Goals**

Workshop Co-Chairs

CASEY BARTON BEHRAVESH
Director, One Health Office
U.S. Centers for Disease Control and Prevention

JONNA MAZET
Professor of Epidemiology and Disease Ecology
Founding Executive Director, One Health Institute
School of Veterinary Medicine
University of California, Davis

10:10 AM **Keynote Address**

“Rx One Health: a prescription to prevent pandemics”

ERIC GOOSBY
Professor of Medicine, UCSF School of Medicine and former United Nations Special Envoy on
Tuberculosis

10:40 AM **Q&A**

Session I: Defining the One Health State of Affairs

Session I objectives:

- Assess current One Health programs and efforts worldwide and their participation in the response to global public health crises
- Showcase how One Health practices have been integrated into existing programs to improve the current model for global public health responses.

KENT KESTER
Session Chair
Vice President
Head, Translational Science and Biomarkers
Sanofi Pasteur

11:00 AM **One Health in praxis**

Case presentations

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“Operationalizing One Health at a local level”

DANA WILTZ-BECKHAM

Director, Office of Science, Surveillance and Technology

Harris County Public Health, Texas

“Multi-Sectoral Engagement in the COVID-19 Outbreak Response in Thailand”

SUPAPORN WACHARAPLUESADEE

Deputy Chief

Thai Red Cross Emerging Infectious Diseases Health Science Centre

“COVID-19 response – Lessons Learnt to reinforce the relevance of One Health principles”

THIERRY NYATANYI

Senior Advisor, COVID-19 Taskforce

Africa CDC

12:00 PM **Q&A**

12:45 PM **Observations from Day 1**
KENT KESTER

1:00 PM **Adjourn**

DAY 2 – WEDNESDAY, 24 February 2021
10:00 am – 1:00pm

Session II: What Can One Health Do Right Now?

Session II Objectives:

- Assess the current status of developing a One Health workforce to identify gaps between education and training programs and employment needs
- Explore frameworks to establish cross-sector collaborations and community engagement to strengthen threat surveillance and detection
- Discuss challenges of and methods for introducing the One Health approach into existing systems for epidemiological surveillance (local, national, international levels)

10:00 AM **Welcome and Recap Day 1**

EVA HARRIS

Session Chair

Professor, Division of Infectious Diseases and Vaccinology
Director, Center for Global Public Health,
University of California, Berkeley

10:05 AM **Panel Discussions**

Panel I: What is Being Done Right Now?

Moderator: Mark Smolinski (Ending Pandemics)

DAVID GOLDMAN

JAMES HOSPEDALES

CARRIE S. MCNEIL

DAVID RIZZO

ESRON KARIMURIBO

10:35 AM **Q&A**

11:00 AM Panel II: What Could We Be Doing Better?

Moderator: John Nkengasong (Africa Centres for Disease Control and Prevention)

JOHN BALBUS

CHRISTOPHER BRADEN

CARLOS DAS NEVES

RICHARD HORTON

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CRISTINA ROMANELLI

11:30 AM **Q&A**

11:55 PM **Break**

12:05 PM **Plenary Presentations**

I. The One Health Workforce

“One Health Workforce: Reconciling Competencies with Opportunities.”

LONNIE KING

Dean Emeritus, College of Veterinary Medicine

The Ohio State University

II. Community engagement and frameworks for collaboration

“University Networks on the Front Lines for Community Engagement and One Health Innovation”

WOUTRINA A. SMITH

Professor, School of Veterinary Medicine

University of California, Davis

12:40 PM **Q&A**

12:55 PM **Observations from Day 2**

EVA HARRIS

1:00 PM **Adjourn**

DAY 3 – THURSDAY, 25 February 2021
10:00am – 1:00pm

Session III: Looking Forward – Lessons from the Past and the Future of One Health

Session III Objectives:

- Lessons that can be learned and extrapolated from COVID-19: Priority actions for policy, public-private partnerships, and industry resilience to build a broad, threat-agnostic global health system
- What comes next: Strategies to facilitate international cooperation and data sharing to establish forecasting capabilities for emerging health threats

10:00 AM **Welcome and Recap Day 2**
PETER DASZAK
Session Chair
President
EcoHealth Alliance

10:05 AM **Plenary Presentations**
Learning from the past and planning for the future – Collaboration opportunities and priority actions

I. What future capabilities can we build toward predicting the next outbreak?

“Precision Epidemiology, Human Behavior, and the Future of One Health”

JONATHAN QUICK
Managing Director; Pandemic Response, Preparedness, and Prevention
Health Initiative, The Rockefeller Foundation

II. An example of existing frameworks that could be scaled up to improve public health systems in the U.S.

“A Collaborative Effort in Outbreak Preparedness: FDA’s Approach to African Swine Fever”

DANIELLE SHOLLY and KATHERINE HUEBNER
Animal Scientist, Center for Veterinary Medicine
U.S. Food and Drug Administration

III. What future policies can we develop to support forecasting emerging health threats?

“The Paradox of Global Policies for Pandemic Prediction and Prevention”

JOHN AMUASI
Executive Director

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African Research Network for Neglected Tropical Diseases

IV. How can the public and private sectors collaborate to improve resilience against future global health threats?

“Taking Pandemic Threats Off the Table”

RAJEEV VENKAYYA
President, Global Vaccine Business Unit
Takeda Pharmaceuticals

11:05 AM **Q&A**

11:30 AM **Break**

11:40 PM **Breakout Room Discussions**

Key takeaways for building a better system for outbreak Response, Surveillance/ Detection, and Forecasting

- In-depth discussions that will identify key, feasible goals and steps that can be taken toward improving outbreak preparedness efforts for the future
 - Identify 1-2 short-term goals
 - Identify 1-2 long-term goals
 - Identify key actions and relevant institutions involved in achieving these goals

Breakout 1: Response Capacities

- Moderator: Kent Kester, *Sanofi Pasteur*
- Kaylee Myhre Errecaborde, *University of Minnesota*
- Olga Jonas, *Harvard University*
- Catherine Machalaba, *EcoHealth Alliance*
- Peter Rabinowitz, *University of Washington*
- Michael Wilkes, *University of California, Davis*
- Victor del Rio Vilas, *World Health Organization*

Breakout 2: Surveillance and Detection Mechanisms

- Moderator: Maureen Lichtveld, *University of Pittsburgh*
- Charles (Ben) Beard, *U.S. Centers for Disease Control and Prevention*
- Julie Fischer, *Georgetown University*
- Tracey McNamara, *Western University of Health Sciences*
- Jonathan Sleeman, *U.S. Geological Survey*
- Irene Xagorarakis, *Michigan State University*
- TBD

Breakout 3: Forecasting and Predictive Innovations

- Moderator: Peter Daszak, *EcoHealth Alliance*
- Marc Allard, *U.S. Food and Drug Administration*

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- Greg Glass, *University of Florida*
- Barbara Han, *Cary Institute of Ecosystem Studies*
- Laura Kahn, *Princeton University*
- Andrew Maccabe, *American Association of Veterinary Medical Colleges*
- Claire Standley, *Georgetown University*

12:10 PM **Breakout Room: Recap**

12:25 PM **Q&A**

12:55 PM **Closing Remarks**

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Professor of Epidemiology and Disease Ecology
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1:00 PM **Adjourn**