

*The National Academies of*  
**SCIENCES • ENGINEERING • MEDICINE**

**Readiness for Microbial Threats 2030:  
Exploring Lessons Learned since the 1918 Influenza Pandemic  
*A Workshop***

**Agenda  
NOVEMBER 27-28, 2018**

The National Academies Keck Building  
500 Fifth Street NW - Room 100  
Washington, DC 20001

**Objectives:**

This 1.5-day public workshop will examine the lessons a century of major outbreaks and pandemics have taught, the lessons that have been learned and applied (and not applied), and the world's current readiness to prevent, detect, and respond to pandemic influenza and other potential novel diseases. Workshop participants will reflect on the challenges of improving readiness, discuss how to move beyond barriers, assess how the latest advances in global, regional, and national governance structures, systems and capacities to fight against the next influenza pandemic can make a difference, and explore areas that need more work, including immediate and short-term actions that will have the greatest impact on global health security by 2030.

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

- Recent progress achieved in monitoring global health security and pandemic preparedness at the global and national levels, including advances in developing national action plans stemming from the International Health Regulations and Joint External Evaluation, building strong public health capacities that incorporate a One Health approach, and developing risk analysis and assessment tools to guide resource allocation.
- Critical challenges and opportunities in developing and evaluating medical countermeasures, including seasonal vaccines, a universal influenza vaccine, and novel diagnostics and therapeutics, and strategies to secure their adequate supply and distribution, particularly ensuring access to high-risk populations.
- Various methods and tools, such as effective emergency operations centers, surveillance systems, and sequencing technologies, to shorten the time between onset and detection, lab confirmation, and public communication of major disease outbreaks.
- The ethical and operational challenges and opportunities for enabling meaningful coordination, cooperation and sharing of information and technological benefits among various stakeholders, including multilateral organizations, national governments, private sector, and civil society.

Workshop speakers and discussants will contribute perspectives from government, academia, private, and nonprofit sectors from the global to local levels.

**DAY 1 – TUESDAY, November 27, 2018**

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11:00am ET

**Welcome Remarks**

PETER DASZAK, *Chair of the Forum on Microbial Threats*  
President  
EcoHealth Alliance

**Workshop Overview and Goals**

KEIJI FUKUDA, *Workshop Chair*  
School Director and Clinical Professor  
The University of Hong Kong School of Public Health

**Keynote Address**

**Impact of Outbreaks and Pandemics on People, Communities, and Economies**

RICK BRIGHT

Director of the Biomedical Advanced Research and Development Authority  
U.S. Department of Health and Human Services

**Plenary Presentation**

**A Century of Evolving Pandemic and Emerging Diseases Challenges**

ARNOLD MONTO

Thomas Francis, Jr. Collegiate Professor of Public Health and of Epidemiology  
University of Michigan

12:00pm

**Lunch**

**Session I: Major Lessons Learned Since the 1918 Influenza Pandemic**

1:00pm

**Session I Objectives:**

- Examine the lessons learned from a century of major outbreaks and pandemics from the global to national to community to private sector levels
- Review the advances that have been made since the major outbreaks and the lessons that still need to be applied

**Panel Discussions on Real World Experiences**

**PART A: National and Community Perspectives and Lessons –**

***The critical difference of whether strong national capacities are in place: The experiences of MERS in Kingdom of Saudi Arabia, Ebola Virus Epidemic in West Africa, and SARS in Hong Kong***

*Moderator:* Suerie Moon, The Graduate Institute of International and Development Studies

ABDULLAH ASSIRI, Assistant Deputy for Preventive Health, Ministry of Health – Saudi Arabia

MOSOKA FALLAH, Deputy Director General for Technical Services, National Public Health Institute – Liberia

## WORKSHOP ON READINESS FOR MICROBIAL THREATS 2030

GABRIEL LEUNG, Dean of Medicine, The University of Hong Kong

AMANDA McCLELLAND, Senior Vice President of Prevent Epidemics, Resolve to Save Lives

1:35pm **Q&A**

2:15pm **PART B: Private Sector and Institutional Perspectives and Lessons –**  
*The full spectrum of challenges related to influenza vaccine during the 2009 Influenza Pandemic: Development; Regulatory Approval; Manufacturing Capacity and Timing; Vaccine Sharing; Liability and Equity; Immunization; and Post-Pandemic Repercussions*

*Moderator:* Jacqueline Katz, U.S. Centers for Disease Control and Prevention

WENQING ZHANG, Manager of Global Influenza Programme, World Health Organization

KAREN MIDTHUN, Senior Advisor of Center for Vaccine Innovation and Access, PATH

CLEMENT LEWIN, Associate Vice President of R&D Strategy, Sanofi Pasteur

BRUCE GELLIN, President of Global Immunization, Sabin Vaccine Institute

STEVEN SOLOMON, Principal Legal Officer, World Health Organization

3:00pm **Q&A**

3:45pm **Break**

4:00pm **PART C: Global Perspectives and Lessons –**  
*The consequences of inequity and partial solutions: H5N1 and development of the Pandemic Influenza Preparedness Framework*

*Moderator:* Keiji Fukuda, The University of Hong Kong School of Public Health

AMB. MAKARIM WIBISONO, Professor, Indonesian Defense University

AMB. JOHN E. LANGE, Senior Fellow for Global Health Diplomacy, United Nations Foundation

ANNE HUVOS, Manager of PIP Framework Secretariat, World Health Organization

STEVEN SOLOMON, Principal Legal Officer, World Health Organization

4:35pm **Q&A**

5:20pm **Observations from Day 1**  
KEIJI FUKUDA, *Workshop Chair*  
School Director and Clinical Professor  
The University of Hong Kong School of Public Health

5:30pm **Adjourn**

5:35pm **Reception**

## DAY 2 – WEDNESDAY, November 28, 2018

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8:30am **Welcome and Recap Day 1**  
KEIJI FUKUDA, *Workshop Chair*  
School Director and Clinical Professor  
The University of Hong Kong School of Public Health

### Session II: Overcoming Critical Impediments to Achieve Greater Preparedness

8:40am Session II Objectives:

- Identify actions and strategies that need to be prioritized to systematize and integrate outbreak and pandemic preparedness at the global, national, and local levels

#### **Panel Discussion**

**How can the cycle of panic and neglect be ended and the business case made for sustained political and financial support for preparedness?**

*Moderator:* Kumanan Rasanathan, Health Systems Global

JULIE L. GERBERDING, Executive Vice President and Chief Patient Officer, Merck & Co., Inc.

AMB. JIMMY KOLKER, Visiting Scholar, American Association for the Advancement of Science

SUZET MCKINNEY, Executive Director and CEO, Illinois Medical District

PETER SANDS, Executive Director, The Global Fund to Fight AIDS, Tuberculosis, and Malaria

9:40am **Q&A**

10:30am **Break**

10:45am **Small Group Discussions**

#### **Table Discussions**

Each table will be assigned to reflect on the following question:

- What are the actions and strategies that need to be prioritized to systematize and integrate outbreak and pandemic preparedness, so it is a routine—and not extraordinary—part of governmental and other organizational activities at the global, national/local, and private sector level?

*Moderator:* Jonna Mazet, University of California, Davis

11:30am **Open Discussion**  
Participants will have an opportunity to discuss their reflections about priority actions and strategies in an open discussion.

12:00pm **Lunch**

### Session III: Top Priorities and Actions for Preparedness by 2030

1:00pm Session III Objectives:

- Articulate the business case that would bolster and systematize capacity for preparedness at all levels and that synergize with current investments in health systems
- Synthesize immediate and short-term actions for outbreak preparedness that will have the greatest impact on global health security by 2030 and how they synergize with efforts to achieve the Sustainable Development Goals
- Understand the role of One Health in driving preparedness efforts by 2030

*Moderator:* Rima Khabbaz, U.S. Centers for Disease Control and Prevention

#### **Panel Discussion**

**Short visionary statements on the priorities for better preparedness by 2030 and next steps forward.**

HARVEY V. FINEBERG, President, Gordon and Betty Moore Foundation

GABRIELLE FITZGERALD, Founder and CEO, Panorama

NICOLE LURIE, Former Assistant Secretary for Preparedness and Response, U.S. Department of Health and Human Services

CIRO UGARTE, Director, Health Emergencies Department, Pan American Health Organization

2:00pm **Final Synthesis Discussion with the Audience**

2:45pm **Closing Remarks**

KEIJI FUKUDA, *Workshop Chair*

School Director and Clinical Professor

The University of Hong Kong School of Public Health

PETER DASZAK, *Chair of the Forum on Microbial Threats*

President

EcoHealth Alliance

3:00pm **Adjourn**