



Division of Laboratory Systems

CDC's Evolving Work on National Laboratory System Response

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Call for a National Laboratory Response System Road Map

“Externally, the CDC can work more closely with industry, academia, and public and private labs to develop a national road map with clearly defined governance, roles, and responsibilities for the different sectors of the laboratory community at progressive stages as epidemics evolve.”

Jay K. Varma, Jill Taylor, and Joshua M. Sharfstein, “Planning for the Next Pandemic: Lab Systems Need Policy Shift to Speed Emerging Infectious Disease Warning and Tracking” *Health Affairs* 42, No. 3 (2023)

The National Clinical Laboratory System



Entities that Support Testing during Responses to PHEs



Federal Agencies and Resources



Test Developers and Instrument and Reagent Manufacturers

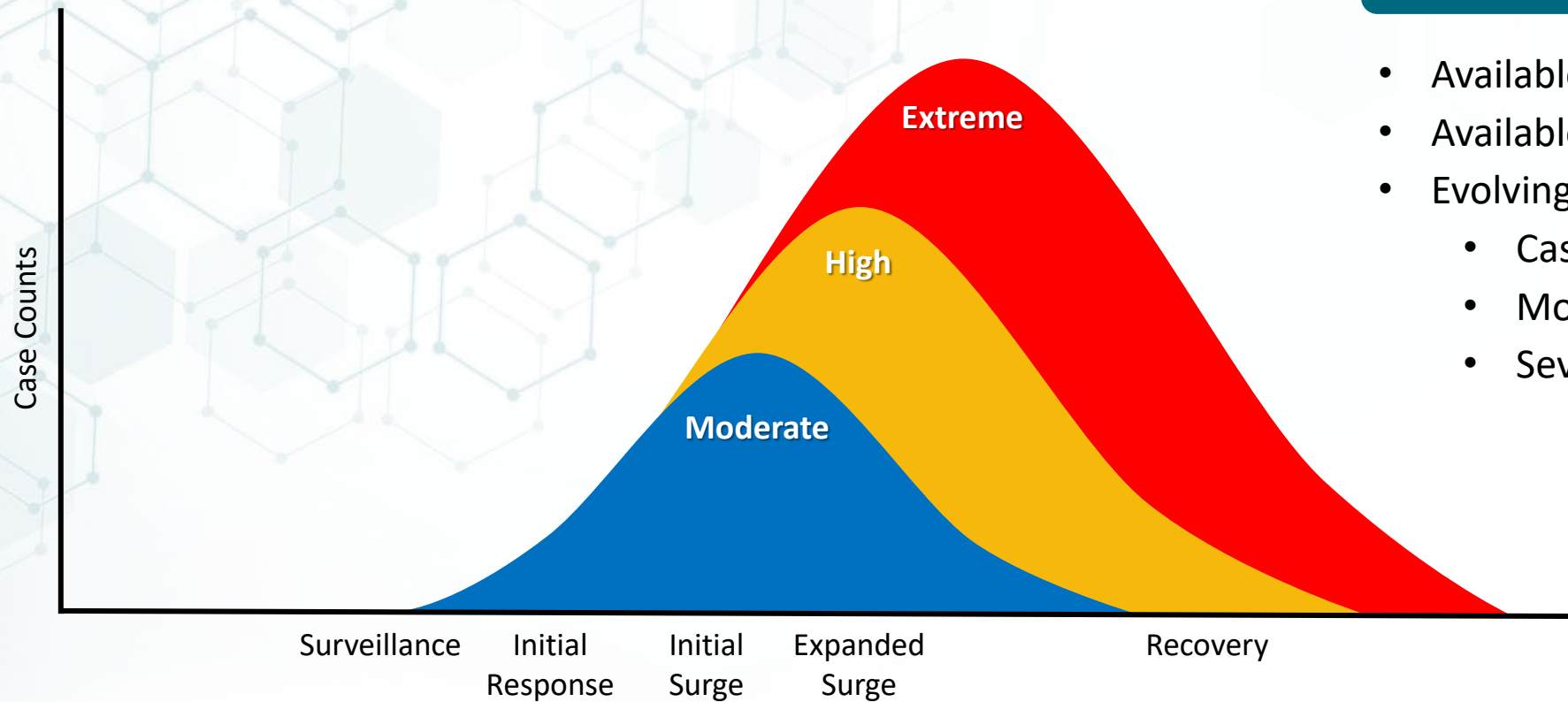


Professional Laboratory Organizations



Academia and Non-Governmental Organizations

"Testing Phases" of Public Health Emergencies



Important Considerations

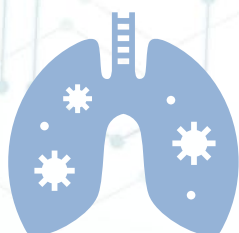
- Available diagnostics
- Available medical countermeasures
- Evolving scientific data, such as
 - Case rate
 - Mode of transmission
 - Severity and duration of illness

General Scenarios that Shape Laboratory and Testing Responses

Known Disease



**1. Non-respiratory
transmission**



**2. Respiratory
transmission**

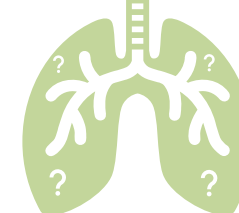


**3. Limited/no
treatment or extreme
morbidity/mortality**

Unknown Disease



**4. Non-respiratory
transmission**



**5. Respiratory
transmission**

Conceptual Framework for Evaluating Laboratory System Response

	Surveillance	Initial Response	Initial Surge Response	Expanded Surge Response	Recovery
CDC					
PHLs					
Other federal laboratories					
Commercial laboratories					
Other clinical laboratories					
Point-of-care testing facilities					
Other federal agencies					
Manufacturers					
Professional organizations					
Academia and NGOs					

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