

Beyond the Last Mile: Monitoring and Assessing Medical Countermeasure Use in Response to Public Health Emergencies

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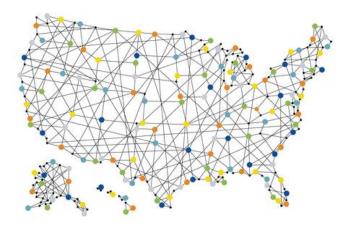
NASEM Workshop



PROCEEDINGS OF A WORKSHOP

Building a National Capability to Monitor and Assess Medical Countermeasure Use During a Public Health Emergency

GOING BEYOND THE LAST MILE



The National Academies of SCIENCES • ENGINEERING • MEDICINE

June 6-7, 2017 Washington, DC

- Setting the Stage: Defining Terminologies and Sharing Stakeholder Perspectives
- Data Needs, Data Sources, and Collection Methodologies for Stakeholder Decision Making
- Considerations for Conducting Rapid Clinical Research on MCMs during a PHE
- Inspiring Collective Action: Perspectives from Federal Stakeholders and Reflections from Individual Workshop Participants

National Academies of Sciences, Engineering, and Medicine. 2017. Building a National Capability to Monitor and Assess Medical Countermeasure Use During a Public Health Emergency: Going Beyond the Last Mile: Proceedings of a Workshop. Washington, DC: The National Academies Press. https://doi.org/10.17226/24912.

FDA's MCM Roles



- Facilitating development of and access to safe and effective MCMs
- Legal mechanisms (e.g., EUA, IND, IDE, Expanded Access)
- Consumer protection
- Collaboration
- Monitoring MCM use for safety and effectiveness



Monitoring and Assessment (M&A)



The U.S. government has a limited capacity to rapidly collect and analyze public health emergency (PHE) medical countermeasure (MCM) safety and effectiveness data, especially during a PHE response.



There is a critical need for the U.S. Government (USG) to build and maintain a national capability to monitor and assess medical countermeasures (MCMs) after they are dispensed or administered in response to a chemical, biological, radiological, or nuclear threat or an emerging infectious disease.

https://www.fda.gov/EmergencyPreparedness/Counterterrorism/MedicalCountermeasures/MCMIssues/ucm561377.htm

How is assessment different in a public health emergency?

PHE

- Intent respond and mitigate
- Unplanned / Unexpected
- Uncontrolled or no data collection
- Undefined number of individuals
- Simultaneous administration / multiple products
- Requires rapid decision-making
- Little or no tracking / monitoring
- Lack of / limited clinical provider oversight
- Limited reporting and information dissemination

TRADITIONAL R & D

- Intent generalizable knowledge
- Planned / Deliberate
- Well-controlled clinical trials
- Defined number of individuals
- Stepwise progression / single product administration
- Allows more time for decision-making
- Strict oversight and monitoring
- Principal investigator / clinical study staff interaction
- Informed consent/IRB
- Clearly defined reporting requirements and information sharing

Progress to Date









The National

Academies of

























CIADMs

2012

Regulatory & Quality **Affairs**

2006

ADS Modeling Hub

2009

Fill Finish Mfg. **Network**

2013

Nonclinical Development **Network**

2011

Studies Network

Clinical

2014

SCIENCES

MEDICINE

OCET M&A Projects in FY17 / FY18



NASEM Workshop: Building a National Capability to Monitor and Assess MCM Use in Response to PHEs

 A Stand Alone Workshop for stakeholders interested in MCM monitoring and assessment

U.S. Critical Illness and Injury Trials (USCIIT) Group / SCCM Discovery-PREP

 Streamlining Countermeasure Data Collection During Public Health Emergencies

FDA Sentinel Initiative

 Assess the Sentinel System's capabilities to conduct MCM safety and effectiveness studies

FDA Real-Time Application for Portable Interactive Devices (RAPID) Platform

 Perform studies in real time to evaluate MCM safety & effectiveness during MCM events



USCIIT / Discovery-PREP

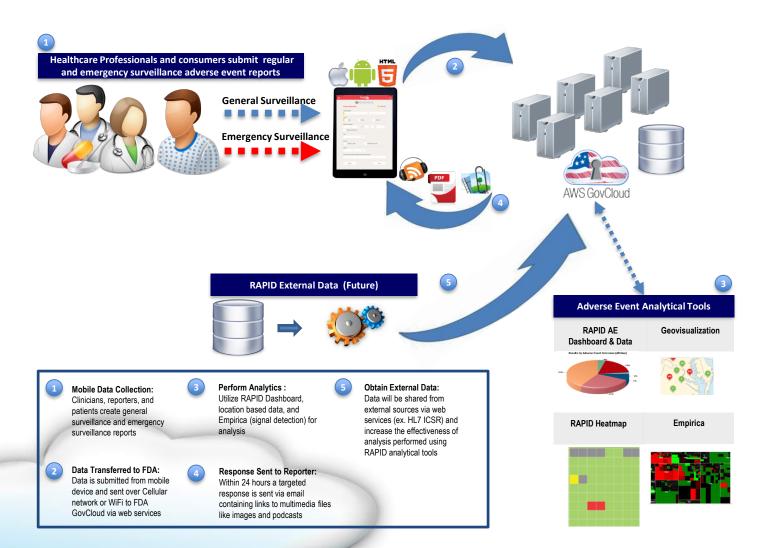


- Develop and pre-position protocols
- Use central IRB for expedited review of clinical protocols
- Develop eCRF for standardized data collection
- Create data dissemination plan to share key findings



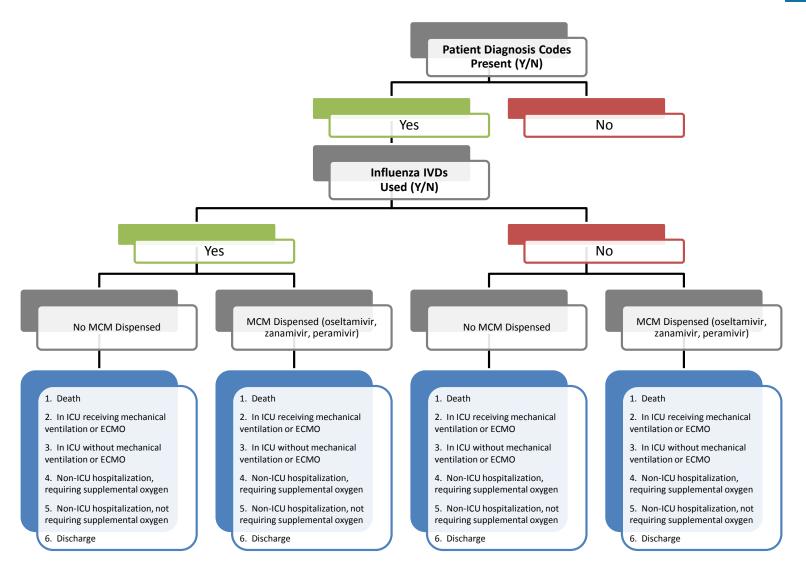
FDA RAPID





FDA Sentinel Initiative





Coordination & Collaboration



















NGOs & Think Tanks









State & Local

Resources



- MCM Monitoring and Assessment (new page)
 - https://www.fda.gov/EmergencyPreparedness/Counterterrorism/MedicalCountermeasures/MCMIssues/ucm561377.htm
- FDA Medical Countermeasures Initiative (MCMi)
 - https://www.fda.gov/medicalcountermeasures
- Emergency Use Authorization of Medical Products and Related Authorities – Jan. 2017 Guidance
 - https://www.fda.gov/RegulatoryInformation/Guidances/ucm125127.htm
- PAHPRA (Public Law 113-5)
 - http://www.gpo.gov/fdsys/pkg/PLAW-113publ5/pdf/PLAW-113publ5.pdf
- MCM emergency use authorities (EUA, etc.)
 - http://www.fda.gov/EmergencyPreparedness/Counterterrorism/MedicalCountermeasures/ MCMLegalRegulatoryandPolicyFramework/ucm411432.htm



THANK YOU!

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