

Session 1.C: Countermeasure and Response Administration and Integrated Data Management

Presented by:
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Agenda

- Introductions
- Part 1: Countermeasure and Response Administration Overview
- Part 2: Integrated Data Management
- Part 3: Role of Immunization Registries in Emergency Preparedness



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Introductions

- Victoria (Vicki) Kipreos, PMP
 - ◆ Lead IT Specialist, CDC/IRMO
 - ◆ Certified Project Manager with 17 years experience in healthcare and financial software development
 - ◆ Program Lead of the Emergency Preparedness Systems Group
 - ◆ Lead for Informatics support of CDC DEOC
 - ◆ Positioned with the CDC since Oct., 2001



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Introductions

- Paula Soper, MPH
 - ◆ Senior Epidemiologist, STC
 - ◆ Consulted several state and local health departments on emergency preparedness infrastructure issues
 - ◆ 10 years background in public health
 - ◆ Co-Chair of AIRA emergency preparedness and response committee
 - ◆ Past President of AIRA
 - ◆ Former immunization registry manager with the Maryland Department of Health



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Part 1: Countermeasure and Response Administration Overview

- What is Countermeasure and Response Administration?
 - ◆ Managing information about the administration of vaccine or other types of prophylaxis
 - ★ In preparation for a public health emergency (pre-event)
 - ★ In response to a public health emergency (post-event)
 - ◆ Using isolation and quarantine as methods of controlling or preventing further outbreaks
 - ◆ Using compliance monitoring to track the effectiveness and safety of the countermeasure
 - ◆ Providing a Countermeasure and Response Administration System (CRA) or data exchange capabilities to our partners to ensure an appropriate public health response



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Part 1: Countermeasure and Response Administration Overview

- The new system is an expansion of the Smallpox Pre-event System (PVS)
- The system will focus on vaccines and prophylaxis used for Category-A Agents:
 - ★ Anthrax
 - ★ Botulism
 - ★ Plague
 - ★ Smallpox
 - ★ Tularemia
 - ★ Viral Hemorrhagic Fevers



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Part 1: Countermeasure and Response Administration Overview

- Countermeasures include Pharmaceutical treatments
 - ◆ Vaccines
 - ◆ Antibiotics
 - ◆ Anti-viral drugs
 - ◆ Other drugs
- Countermeasures include Non-pharmaceutical actions
 - ◆ Quarantine
 - ◆ Isolation
 - ◆ Patient follow up
- Working groups will be used to validate the functional and technical requirements of CRA



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Part 1: Countermeasure and Response Administration Overview

- Jurisdictions will be able to use CRA or their own system with data exchange
- Secure connectivity will be required through the Secure Data Network (SDN)
- Jurisdictions will be able to update users, roles and organizations
- A certification process will be in place, similar to the one for PVS, with expanded self-assessment tools



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Part 1: Countermeasure and Response Administration Overview

- All countermeasures will be administered under a program.
 - ◆ One or more Agents
 - ◆ One or more Countermeasures
 - ◆ One or more specific Populations
- Besides dealing with patients receiving the countermeasure(s), CRA provides functions to:
 - ◆ Manage inventory
 - ◆ Manage organizational data
 - ◆ Generate reports and forms



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Part 1: Countermeasure and Response Administration Overview

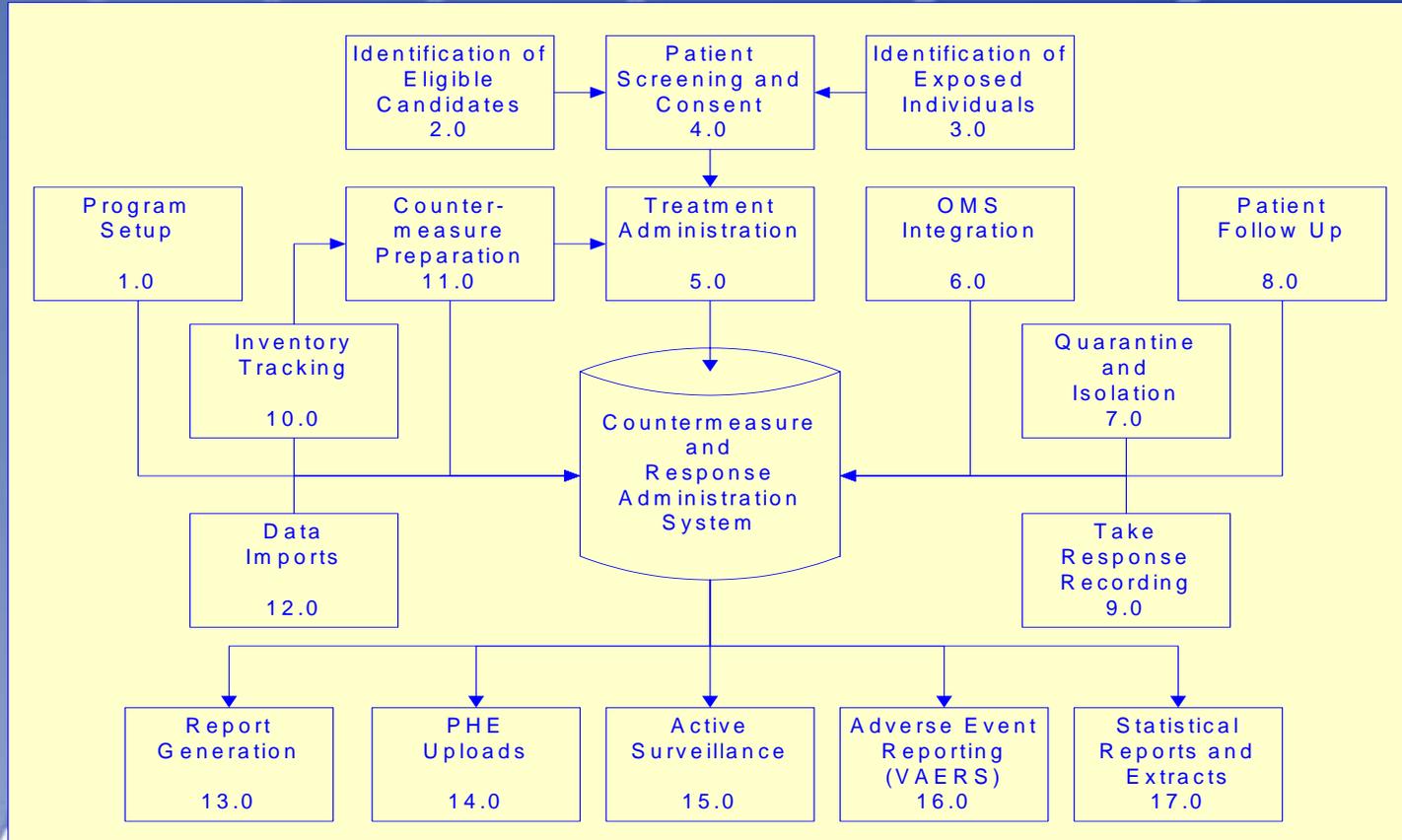
- Flow of countermeasure and response administration includes:
 - ◆ Program set-up
 - ◆ Countermeasure preparation
 - ◆ Inventory updates
 - ◆ Patient administration (history and treatment)
 - ◆ Patient follow up
 - ◆ Active surveillance
 - ◆ Reporting and analysis



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Part 1: Countermeasure and Response Administration Overview



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Part 2: Integrated Data Management

- Data will be exchanged with other CDC and partner systems, as the event warrants
- Integration may occur with:
 - ◆ The Outbreak Management System (OMS)
 - ◆ Immunization Registries
 - ◆ Adverse Events Tracking System (VAERS)
 - ◆ Preparedness Data Warehouse (PDW)
 - ◆ State Preparedness Systems
 - ◆ State Isolation and Quarantine Systems
 - ◆ Strategic National Stockpile Systems (CDC and State-based)



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Part 2: Integrated Data Management

- Data will securely be exchanged directly between CDC systems
- Data will be provided in export files for secure downloads to partners for integration into jurisdictional systems
- PHIN data standards will be used for data exchange, so common vocabulary will permit ease of integration
- Data exchange specifications will be provided to partners to ensure compliance with standards



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Part 2: Integrated Data Management

- Data integration between immunization registries and emergency preparedness systems will eventually include HL7 messaging
- Existing messages being considered for use with Countermeasure and Response Administration:
 - ◆ VXQ – Query for Vaccination Record
 - ◆ VXR – Return of Vaccination Record
 - ◆ VXX – Return of Multiple Vaccination Records
 - ◆ VXU – Unsolicited Vaccination Record Update
 - ◆ ORU – Unsolicited Transmission of an Observation



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Part 3: Role of Immunization Registries in Emergency Preparedness

- An example of data integration between immunization registries and emergency preparedness systems
- Presented by Paula Soper, MPH



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