

Public Health Emergency Preparedness and Response



Daniel M. Sosin, MD, MPH, FACP
Acting Director

Coordinating Office for Terrorism Preparedness and Emergency Response
Centers for Disease Control and Prevention

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How Public Health and Medical Emergency Response Systems Work Together

- Medical Care (Individual)
 1. Supplement medical care providers
 2. Support on-site care
 3. Optimize patient distribution

- Public Health (Population)
 1. Inform medical response
 2. Reduce medical surge requirement
 3. Inform emergency response decision making

Inform Medical Response

- Goal is to ensure appropriate patient care
- Public health contributes through:
 - Health monitoring and surveillance
 - Epidemiology and other assessment sciences (characterization of illness or injury)
 - Laboratory science and services (diagnostics)
 - Communication science
- Impact on medical response is actionable information for effective, efficient medical care

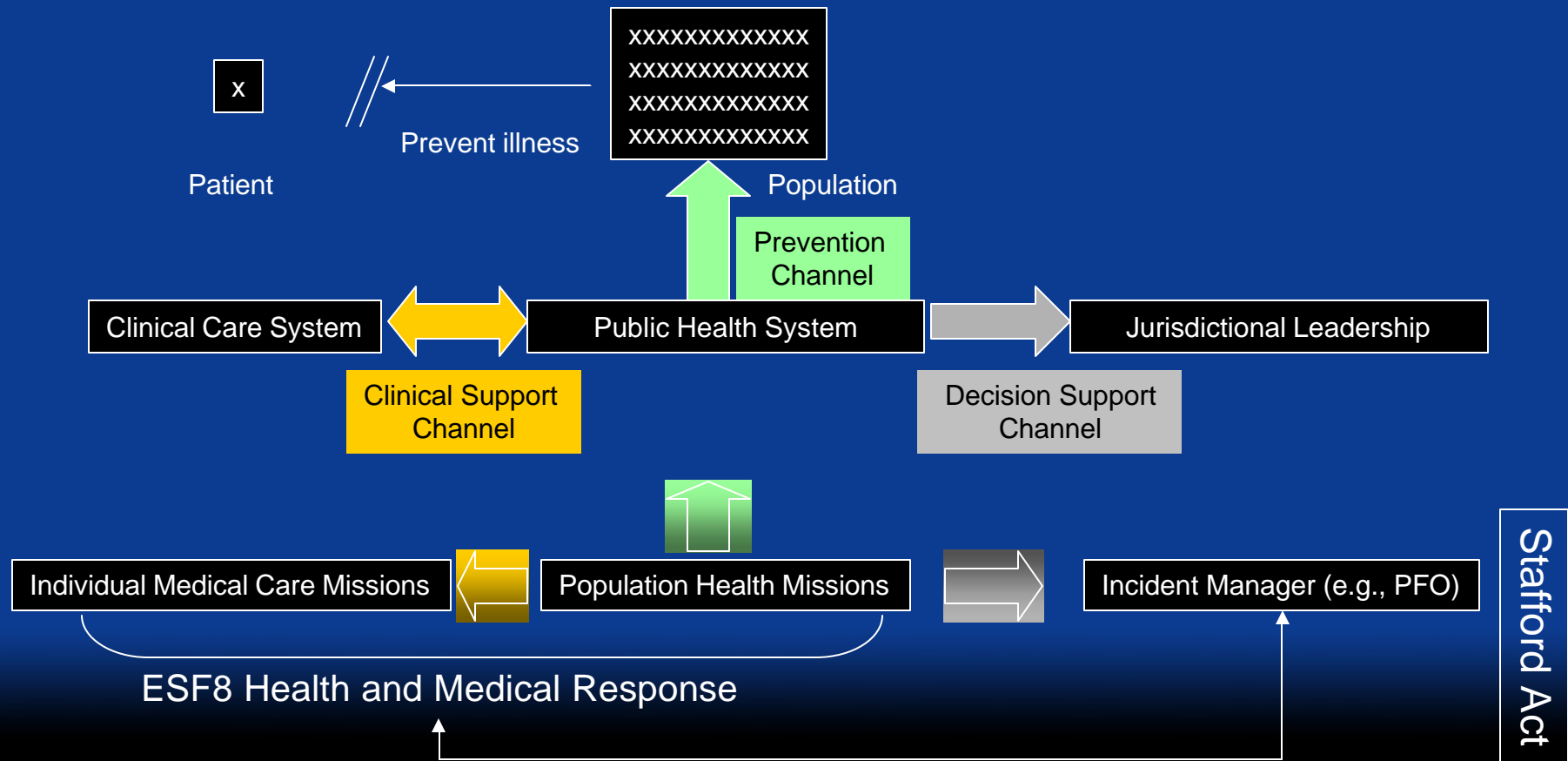
Reduce Medical Surge Requirement

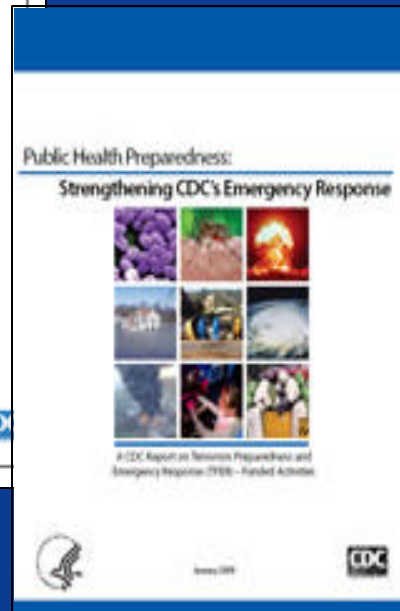
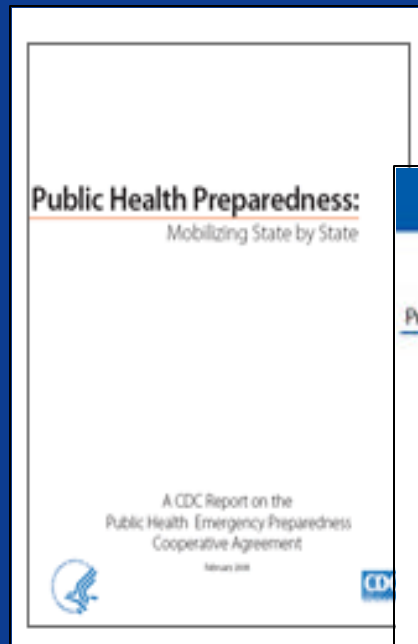
- Goal is to prevent exposure, illness, injury
- Public health contributes through:
 - Vector control
 - Environmental assessment
 - Responder and health care worker protection
 - Countermeasure stockpiling, distribution and dispensing
 - Intervention development and implementation
 - Risk communication and health messaging
- Impact on medical response is to maintain the ability to clinically manage the sickest patients

Inform Emergency Response Decision Making

- Goal is to provide data for incident management
- Public health contributes to situation awareness through:
 - Biosurveillance
 - Scientific experts to interpret data and knowledge base for population health implications
 - Public health response information (operational activities, resources management, modeling)
- Impact on medical response is improved incident response (prevention and mitigation) and confidence in the system

The Relationship between Clinical and Public Health Response





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