

Antibiotic Kits for Emergency Services

10/21/11

Overview

- Emergency Services Coalition for Medical Preparedness
- An FDA-approved commercially-developed antibiotic kit for pre-event positioning in the workplaces and homes of emergency services providers
- Public-private joint venture to commercialize existing capacity

Emergency Services

- Disciplines
 - Law Enforcement
 - Fire and Emergency Services
 - Emergency Management
 - Emergency Medical Services
 - Public Works
- Includes Private Sector/ Contractor Workforces
- Representing 6-8 million including families
- Expands to 19 million with all critical infrastructure

Emergency Services Preparedness - 1

- Consistent evidence that large proportion of providers are not *willing* and *able* to respond in a community-wide biological event
- Recognized gap between planned organizational response in catastrophe and ability of organizations to take planned actions due to the potential of first responders to failing to report
- Key component of forward positioning

Emergency Services Preparedness - 2

- Predicted response rate of 49% for all services
- Range: 58% for health department personnel to 37.% for Corrections personnel
- Factors – fear for personal₅ or family safety; clarity in response role, training, equipment; trust in the organization; personal and family preparedness
- Gershon, R et al. 2010. *Journal of Occupational and Environmental Medicine*52(10): 995-1003.

Emergency Services Coalition for Medical Preparedness

- Informal Coalition of national emergency services associations
- Founded in 2011 to address increasingly apparent gap in workforce preparedness
- International Association of Emergency Managers is administrative lead

ES Coalition Agenda

- Boost immunization levels across emergency services
- Support a voluntary anthrax immunization program
- *Lead the development of a private-public home antibiotic kit for providers and families*
- Develop an education plan and awareness campaign

Public Private Venture

- To develop a *pilot*
- Repackager(s)
- Pharmaceutical company(s)
- ES Coalition and National Associations
- Local emergency services agencies (regionally varied, different size and types of community and professional affiliations)
- Local/state Economic Development Authority(s)
- Others: university researchers, contract research organizations, think tanks, physician investment funds
- Bond financiers, hedge funds, venture capitalists

Antibiotic Kits

- Rapid access to antibiotics can prevent people who are exposed to aerosolized *Bacillus anthracis* from developing anthrax; once symptoms of anthrax emerge, the disease progresses rapidly and can prove fatal
- Preparedness gap: emergency services will be among the first exposed and need an FDA-approved, commercially available antibiotic kit for pre-event positioning in the workplaces and provider homes

Antibiotic Kits for Emergency Services

- Highly disciplined, known population in a command structure already familiar with Mark-1 Kits and chemical antidotes
- Must include families and household contacts
- Kit at work or home
- Mirrors federal programs for postal and DHS employees and builds upon the Executive Order
- Ultimately kit in wallet

Issues for Kit Developer

- Building on first generation kit
- Conduct of comprehension study
- Provision of kits to physicians providing occupational health services to emergency responders
- Limits on prescription authority
- Availability of a product appropriate for pediatric use
- Collection and disposition upon expiry
- Finding sponsor for INDA and NDA
- Procurement of a sufficient quantity for a pilot

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