Emergency Preparedness and Response: Ebola Monitoring

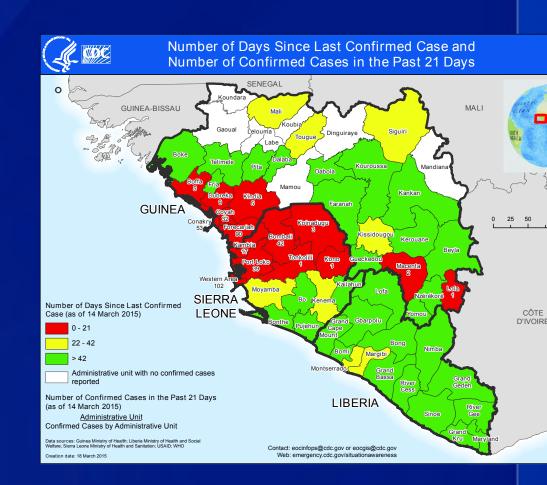
Christine Kosmos, RN, BSN, MS CDC State Coordination Task Force 2014-2015 Ebola Response

20th Annual Chicago Infection Control Conference
June 8, 2015



International Challenges

- Lack of infrastructure
- Overburdened public health and healthcare systems
- Lack of acceptance of Ebola
 - Education
 - Fear and stigma
 - Distrust of outsiders



Current Situation and Response Goals

- Improvements in West Africa
- Response Goals: "Getting to Zero"



- Domestic Goals:
 - Stop importation of unknown disease into the U.S.
 - Reduce the potential for transmission in the U.S.
 - Assure a strong/capable public health and healthcare system

Responding to Domestic Challenges Public Health

- Support the U.S. public healthsystem a layered approach
 - Develop guidance: Monitoring and Movement of Travelers from West Africa and U.S. Healthcare Workers
 - Implement exit and entrance screening
 - Develop tracking systems for daily postexposure monitoring
 - Assure compliance with monitoring
 - Funding
 - Technical assistance

CDC EBOLA GUIDANCE Evaluating Level of Risk



- Direct contact with blood or body fluids from a person showing symptoms of Ebola
- while not wearing personal protective equipment (PPE).

 Living with and caring for a person showing symptoms of Ebola.
- Direct contact with a dead body while in a country with a large Ebola outbreak or a small outbreak that may be hard to control without wearing PPE.
- Direct contact with blood or body fluids from a person showing symptoms of Ebola through splashes to eyes, nose, or mouth, through a break in the skin, or through a needle stick.
- Processing blood or body fluids from a person showing symptoms of Ebola without wearing PPE or undertaking standard biosafety precautions.



- Close contact (within 3 feet) for a long time with a person showing symptoms of Ebola while not wearing PPE.
- Direct contact while in a country with a large Ebola outbreak or a small outbreak that may be hard to control with a person showing symptoms of Ebola while wearing annountate PPF



- Having been in a country with a large Ebola outbreak or a small outbreak that may be hard to control within the past 21 days with no known exposures.
- Brief direct contact, such as shaking hands, with a person who has Ebola while not wearing PPE.
- Being in the same room for a short amount of time with a person showing symptoms of Ebola.
- Direct contact with a person showing symptoms of Ebola in a country without
 a large Ebola outbreak or a small outbreak that may be hard to control while
 wearing appropriate PPE.
- Having traveled on an airplane with a person showing symptoms of Ebola.



- Contact with a person with Ebola before their symptoms began.
- Having left a country with a large Ebola outbreak or small outbreak that may be hard to control more than 21 days ago.
- Having been in a country without a large Ebola outbreak or small outbreak that may be hard to control.
- Contact with a healthy person who had contact with someone showing symptoms of Ebola.
- Having been on an aircraft or ship and did not leave the plane or ship or the area close by while in a country with a large Ebola outbreak or a small outbreak that may be hard to control.



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Responding to Domestic Challenges Healthcare System

- Support the U.S. healthcare systema tiered approach
 - Healthcare system design
 - Develop guidance for hospitals
 - Technical assistance "REP" team visits
 - Role-based training
 - Updated PPE guidance
 - Deployment of CDC Ebola Response Teams (CERT)
 - Funding

ISOLATE

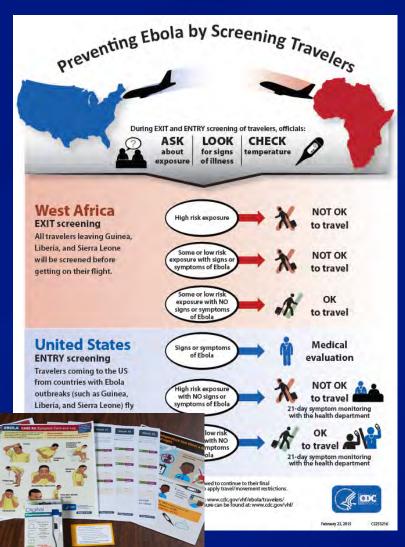


If assessment indicates possible Ebola virus infection, take action.

- Isolate the patient in a private room with a private bathroom or covered, bedside commode and close the door
- Wear appropriate personal protective equipment (PPE): http://go.usa.gov/szgB
- Limit the healthcare personnel who enter the room
- Keep a log of everyone who enters and leaves the patient's room
- Consider alternative diagnoses, and evaluate appropriately
- Only perform necessary tests and procedures
- Avoid aerosol-generating procedures
- Follow CDC guidelines for cleaning, disinfecting, and managing waste: http:// go.usa.gov/szYA

CDC's Entry Screening and Follow-up in the United States

- Enhanced entry screening at five U.S. airports
- Travelers coming from Guinea, Liberia, and Sierra Leone actively monitored by a state or a local health department
 - Travelers receive Check and Report Ebola (CARE) kits



Monitoring and Movement of People with Ebola

Updated recommendations issued to

- Reduce the risk of Ebola spreading
- Ensure people infected with Ebola are able to quickly access appropriate medical care

Updated interim guidance

- Revises risk categories
- Recommends public health actions in the high, some, and low (but not zero) risk categories
- Adds recommendations for specific groups and settings

CDC EBOLA GUIDANCE

Evaluating Level of Risk



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SOME RISK

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DSLR/SCTF Key Activities and Accomplishments

2014 EBOLA RESPONSE

(as of May 24, 2015)

Active Monitoring



to establish protocol

Implemented across

PHEP* awardee jurisdictions travelers monitored since October 2014

Hospital Readiness



Assessment Hospitals (likely to change)



55
Ebola Treatment Centers

Communication



Reaching Approximately 8,000
State and Local
Partners

Funding

Approximately

\$160M

of PHEP* Ebola supplemental funding



- ---- \$4.7W Active Monitoring
- ----- \$145M Ebola Response
- Support

 Stand TEFAs and Other Response

*Public Health Emergency Preparedeness cooperative agreement

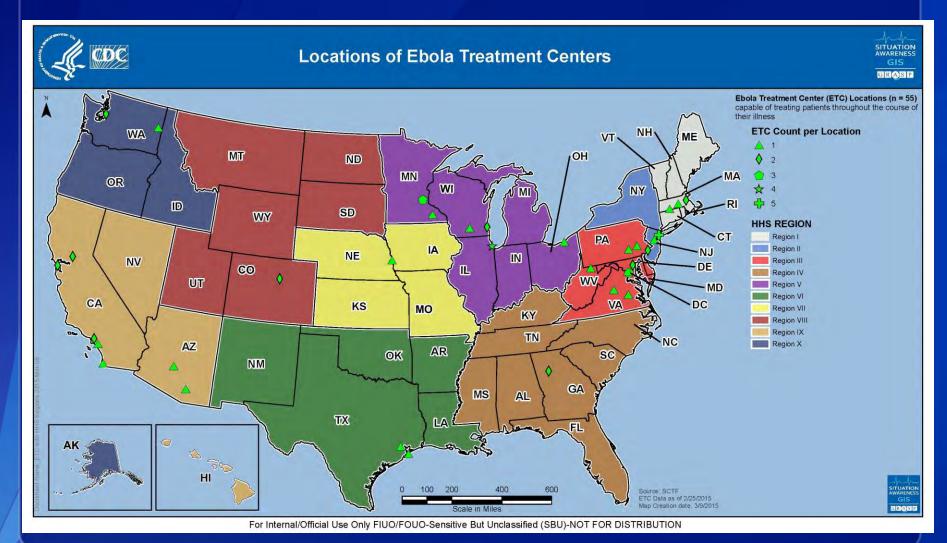
CDC Ebola Emergency Funding Domestic

Two CDC Funding Opportunity Announcements (FOAs)

□ \$145 million in Public Health Emergency Preparedness (PHEP) to support accelerated state and local public health preparedness planning as well as operational readiness for responding to Ebola

□ \$106 million in Epidemiology and Laboratory Capacity to support healthcare infection control, lab biosafety, and global migration

HHS and States Build a National Network of Ebola Treatment Centers



Responding to Domestic Challenges: Rapid Response



- □ Rapid EbolaPreparednessTeams (REP)
- CDC Ebola Response Teams (CERT)

Responding to Domestic Challenges: PPE

Enhanced Personal
Protective Equipment
(PPE) guidance
distributed October 20,
2014



3 Principles

- 1. No skin exposure
- 2. Rigorous training
- 3. Supervised by a trained monitor

CDC web-based PPE training

Domestic Response: By the Numbers



840,000+ healthcare workers trained via online trainings

6,500 healthcare workers trained in-person





Designated 55 Ebola
Treatment Centers in
17 states + DC

REP Team visits 81 facilities in 21 states + DC





56 LRN labs approved to test for Ebola
The first Ebola test took 24 hours, current tests take 4-6 hours

CDC works 24/7 to save lives & protect people from health threats







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