



**ASPR**

# FRONT LINES OF DEFENSE FOR INFECTIOUS DISEASES

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the COVID-19 Outbreak

**MARCH 2020**

**PROTECTING INFECTIOUS DISEASE RESPONDERS  
DURING THE COVID-19 OUTBREAK**

**SEPTEMBER 2016**

**NIEHS WORKER TRAINING PROGRAM 2016 FALL AWARDEE MEETING  
AND WORKSHOP**

# What Have We Accomplished?

- Did we prevent its spread?
- Did we save lives?
- Did we build a system?

# Ebola and Other Special Pathogens



# Ebola and Other Special Pathogens



# The Future: A Predictable Surprise

## Surprise

- SARS
- MERS
- Ebola
- Zika

## Surprise

- ???????
- ???????
- ???????
- ???????

# Which Predictable Surprises Matter?

- Unknown (especially)
- Spread rapidly
- Kill economies
- Kill people

# Front Lines of Defense





# Front Lines of Defense



# Front Lines of Defense



# Front Lines of Defense



# Front Lines of Defense



# Front Lines of Defense

- Entertainment & Sports (Bowling alley)
- Transportation (Subway)
- Transportation (Airplane)
- Waste management
- Health care workers
- ***SOME PREDICTABLE, SOME NOT***

# What About The Next Surprise?

- “The only thing you have to fear is fear itself”
- Dealing with uncertainty

# Dealing With Uncertainty

*Bridging the science of infection prevention and control into occupational health and safety sectors*

- Rapidly acquire knowledge
- Package knowledge quickly
- Disseminate knowledge quickly
- Train quickly (*JUST IN TIME*)

# Rapidly Acquire Knowledge





# Package and Disseminate It

- CDC COVID-19 GUIDANCE
- NETEC
  - National Ebola Training & Education Center
  - Collaboration among Emory, Nebraska, and Bellevue funded by ASPR and CDC
  - [www.netec.org](http://www.netec.org)
- ASPR TRACIE
  - Technical Resources, Assistance Center, and Information Exchange (TRACIE)
  - [www.ASPRtracie.hhs.gov](http://www.ASPRtracie.hhs.gov)

# Train Quickly – *Just In Time*

## Station 4: Donning High-Risk PPE



\* Photo: James Gathany, CDC

# Expect the Knowledge to Change

- What you trained for last time – may not work this time
- BE FLEXIBLE
- ADAPT
- THEN ADAPT AGAIN

# FRONT LINES OF DEFENSE

- *First line of defense... that may be you*
- *Learn new knowledge... just in time*
- *Surprises are predictable... be flexible, adapt*

# Front Lines of Defense





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**Thank you!**