



# FRONT LINES OF DEFENSE FOR INFECTIOUS DISEASES

Richard C. Hunt, MD, FACEP

Office of the Assistant Secretary for Preparedness and Response U.S. Department of Health and Human Services Washington, D.C.

March 17, 2020 | Protecting Infectious Disease Responders During 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

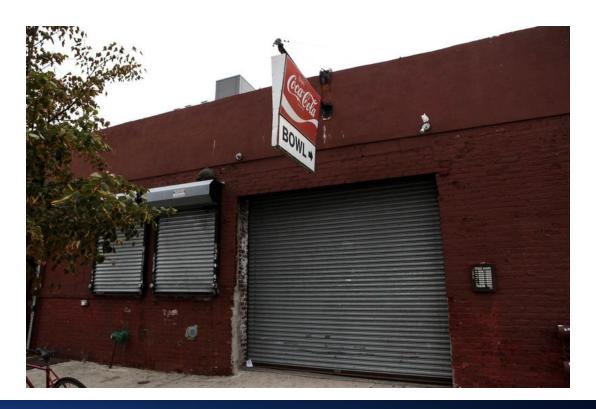
Kill economies

Kill people

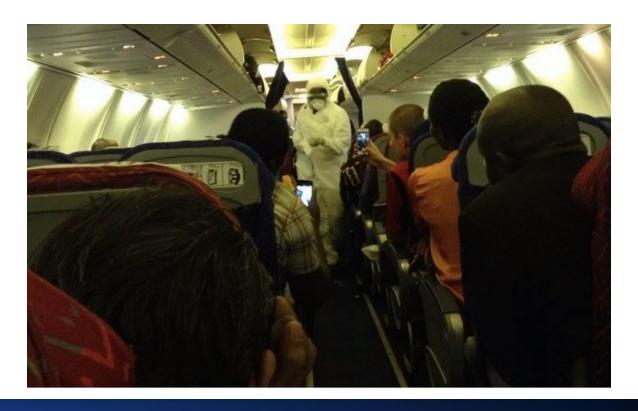






















- Entertainment & Sports (Bowling alley)
- Transportation (Subway)
- Transportation (Airplane)
- Waste management
- Health care workers
- SOME PREDICTABLE, SOME NOT



# 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



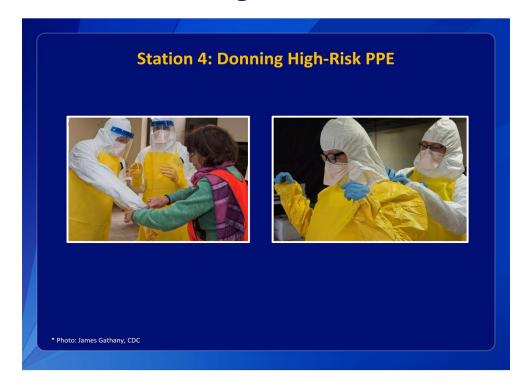


# Package and Disseminate It

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



# Train Quickly – Just In Time





# **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











## Thank you!