# National Laboratory Training Teleconference

April 13, 2004

# **State Training Coordinators: Their Critical Networking Role**

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President
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# **Things to Talk About**

**Today's Public Health Laboratory** 

- · Emerging Threats
- Workforce Training
- · Role of the STC



# **Institute of Medicine**

**Emerging Threats** 

# Reports:



"Emerging Infections: Microbial Threats to Health in the United States" IOM January, 1992



"Microbial Threats to Health: Emergence, Detection, and Response"

# **Institute of Medicine**

# **Emerging Threats**

# Reports:



- · 1992-Wake up call
- Infectious diseases pose threat to U.S. security
- · Complacent about wonder drugs and vaccines
- · Problem of emerging and reemerging diseases



- · 2003-Infectious diseases are increasing
- Potential to disrupt populations, economies, governments
- One nation's problem becomes every nation's problem
- Public health and medical communities unprepared

# **Microbial Threats**

**Factors in Emergence** 



Microbial Adaptation and Change
Human Susceptibility to Infection
Climate and Weather
Changing Ecosystems

# **Microbial Threats**

**Factors in Emergence** 



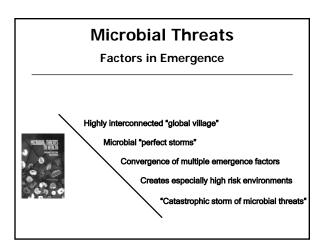
International Travel and Commerce

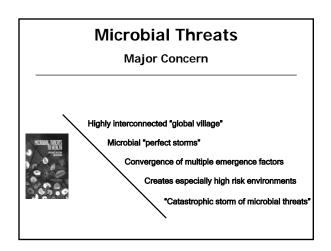
Economic Development and Land Use

Human Demographics and Behavior

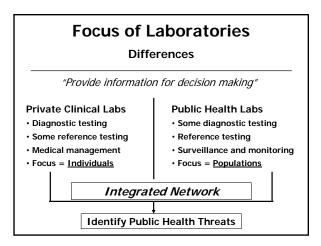
Technology and Industry

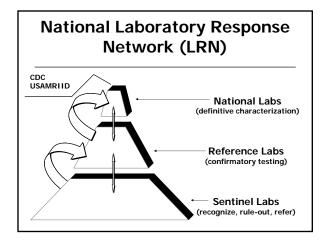
# Breakdown of Public Health Measures Poverty and Social Inequity War and Famine Lack of Political Will Intent to Harm



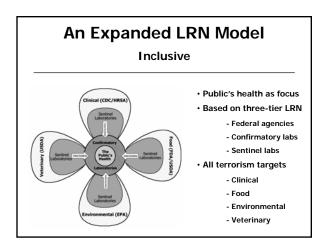


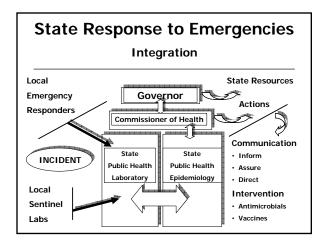
# Emergence of Microbial Threats Consequences Anti-Microbial Resistance Infectious Disease Outbreaks WNV SARS Monkey Pox NEXT ???





# National Laboratory Response Network (LRN) - Clinical Labs - Public Health Labs - Food Labs - Veterinary Labs - Environmental Labs National Confirmatory Sentinel





# Addressing the Threats: 2003 IOM Report Gives 13 Recommendations Among the Recommendations: "Educate and Train the Microbial Threat Workforce"

# Institute of Medicine

Report



"The Future of the Public's Health in the 21st Century"

- Lack of real-time surveillance and epidemiology systems
- Incomplete domestic preparedness / emergency response capabilities
- Communities without access to essential public health services

# **Institute of Medicine**

Report



"The Future of the Public's Health in the 21st Century"

- Vulnerable, outdated health information systems and technologies
- · Insufficient, inadequately trained public health workforce
- Antiquated laboratory capacity

# **Institute of Medicine**

# Report



"The Future of the Public's Health in the 21st Century"

IOM November, 2003

- Public health infrastructure suffers from neglect
- Need to strengthen workforce competence
- Need to provide appropriate education and training

# **Public Health Workforce**

**Lab Perspective** 







**Public Health Labs** 

**Sentinel Clinical Labs** 

# **State Training Coordinators**

**Critical Role** 

"Educate and Train the Microbial Threat Workforce"



- Educate most current information
- Train most current technology
- Network promote interdependency

# **State Training Coordinators**

Role

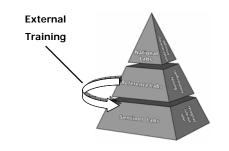
# **Areas of Focus**

- Internal
- External

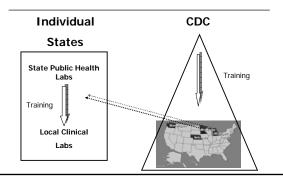


# **State Training Coordinators**

Role in Training



# Preparedness Requires Local Training



# National Laboratory Training Network

# Oversight by APHL and CDC

"Improving Laboratory Practice of Public Health Significance Through Quality Continuing Education"

Continuing Education Formats
Training Resources

# National Laboratory Training Network

## **NLTN Regional Offices**

Boston, MA Chicago, IL Nashville, TN Richmond, CA

### **State Training Coordinators**

Source of information Represent NLTN locally

# **State Training Coordinators**

# Definition

- Training: specialized instruction and practice
- Coordination: harmonious interaction
- The State Training Coordinator: 🖻



"The individual who develops and provides specialized instruction and training at the state level to assure quality

laboratory practice and public health"

# Spectrum of Training Coordinators

## **Position Titles**

- · State Training Coordinator
- · Quality Assurance/Training Coordinator
- · Bioterrorism Training Coordinator
- · Teaching Coordinator
- · Training and Outreach Coordinator

# Spectrum of Training Coordinators

## **Position Titles**

- · Laboratory Bioterrorism Program Manager
- Program Administrator/Training Coordinator
- · Learning Coordinator
- · Training Coordinator (most common)
- · State Laboratory Training Coordinator

# Spectrum of Training Coordinators

## **Position Titles**

- · State Laboratory Trainer
- Coordinator
- · Laboratory Outreach Coordinator
- · Director of Education
- · Laboratory Response Network Coordinator

# Spectrum of Training Coordinators

### **Position Titles**

- · Bioterrorism Teaching Coordinator
- · Supervisor, Training Section
- NO SPECIFIC TITLE

(33%) <

- internal significance
- external significance

# The Role of State Training Coordinators

### **Activities:**

- · Partner with NLTN
- · Partner with clinical laboratories
- · Partner with STC colleagues
- Develop and implement:
  - educational programs
  - training programs
- · Provide continuing education opportunities

# The Role of State Training Coordinators

### **Activities:**

- · Continuing education for infectious disease lab staff
- · Training of National Guard CST staff
- Continuing education for environmental lab staff

4	4
1	1

# The Role of State Training **Coordinators Activities:** · Sentinel lab educational slides · Developing internal lab training program · Planning for clinical lab collaborative meeting The Role of State Training **Coordinators Activities:** • Emergency Preparedness Internal Education/Training · Developing specialized sentinel lab workshops • Serving on clinical lab workforce shortage committee The Role of State Training **Coordinators Activities:** • Providing education/training sites on web page · Developing sentinel lab workshops for bioterrorism

# The Role of State Training Coordinators

# Challenges

"Connecting Through Training"

- · Overcome real and imagined barriers
- · Promote conditions for growth
  - Mutual understanding of roles
  - Identifiable value to everyone
  - Ongoing communication
  - Continual reinforcement of essential roles

The	Role	of	State	Tra	ining
	Co	ord	dinato	rs	

# Challenges

"Connecting Through Training"

- · Shift from independence to interdependency
- · Establish a new laboratory culture

# The Training Coordinator's Impact

# **Trainee Comments**

"... an excellent workshop ... Everyone did an excellent job. Very good information."

"Cool! Very informative."

# The Training Coordinator's Impact

### **Trainee Comments**

"I have a much better understanding of Public Health."

"This is a great service you provide . . . This is important information to get out to the local labs."

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# The Training Coordinator's Impact

## **Trainee Comments**

". . . thank you and the rest of the staff for a very informative and interesting day at the workshop."

"I came away with great pride in our public health department and a new understanding of what your department stands for."

# The Training Coordinator's Impact

## **Trainee Comments**

"It is nice to see the Department of Health getting to know the labs in "Greater Minnesota" (even us little ones), rather then being a giant goliath sitting in the metro area."

# The Importance of Networking

**Protecting the Public** 

In Same Boat

"Working Together to Prevent Disaster"



