







### **PLAGUE CASE STUDY**

- Patient admitted with radiating chest pain x 2wks, history of back pain, normal CXR
- No fever
- CT scan showed mediastinal mass with pleural effusion
  - Pleural effusion identified Y. pestis



Hospital laboratory calls NJDOH/CDS with a rule-out Y. pestis

## CASE STUDY - INITIAL FINDINGS

- Incompatible clinical presentation
- Unclear epi features
  - Unclear country of origin, travel history / visitors
  - Recent layoff
- Pets: bird and new dog
- Specimen approved for testing / LHD notified
  - PHEL (reference lab) confirmed Y. pestis
- Isolate with original fluid sent to CDC (national lab)

- Areas of Concern
  - Atypical clinical presentation for Y. pestis
  - Laboratory confirmation
  - Not found naturally in NJ
- No known travel history to endemic areas
- Recent job loss
- Language barrier
- CDS contacted FBI to discuss case/threat assessment
  - Joint public health/FBI interview

# PUBLIC HEALTH / LAW ENFORCEMENT GOALS / OBJECTIVES

### **Public Health**

### GOAL: To protect the public, to stop the

public, to stop the spread of disease and to protect public health personnel

# Law Enforcement

GOAL: To protect public safety, to prevent a criminal act, to identify, apprehend and prosecute perpetrators and to protect law enforcement personnel

### Interview Objectives:

- 1. Determine source of infection
- 2. Investigate possible bioterrorism linkages
- 3. Identify broader public health concerns

### **KEY INTERVIEW QUESTIONS**

### **Public Health**

- Travel history US, international
- Clinical background
- Peruvian (or other) visitors
- Animal contact
- III close contacts

### FBI

# Demeanor

- Hiding or refusing to provide information
  - Delayed response, avoiding eye contact
- Awareness of suspicious people or activity
- III neighbors or coworkers
- Animal die-off

# INTERVIEW FINDINGS No travel history Daughter spent 2 months in Peru, returning that month No relevant clinical background Chest pain, SOB since August Animal contact Healthy parrot (x 5 yrs) 2 month old healthy puppy, purchased 3 weeks prior No other animal contact, no sightings of dead animals/rodents, no bug bites No ill close contacts / no visitors





