Pandemic Influenza:
Tackling the Tough Issues

What’s New

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What are the Feds Doing?

- $8B in appropriations
- Bought a lot of Tamiflu
- Cell-based vaccine
- Antigen Sparing
- Peramivir - IV
What are the Feds Doing?

- Plans, Training & Exercises
- Stafford Act
- 62 SNS Sites for Pandemic
  - ~12 million courses out

Antiviral Stockpile

Goal: 81 Million Courses (12/'08)

Progress: 50 Million Courses
H5N1 Headliners

• Elucidation for virulence determinants
• Mutations towards transmissibility – maybe!
• Molecular evidence supports human-to-human spread
H5N1 Headliners

- Genetic drift likely for lessened antiviral sensitivity
- FDA approved vaccine for Clade 1
- Point of Care tests developed for H5N1
Where You Fit In

- Realization – Pandemic Scenario
- Awareness from the Front Lines
- Not just a medical issue
- Interaction required at all levels
Where You Fit In

• Stress reduction of seasonal flu
• Get your flu shot! Herd Immunity & Eliminate the background
• Strategy = plan and prepare to *thrive*, not just survive
Factors Causing Pandemics—Conditions Favoring a Pandemic

- A new Influenza A virus arising from a major genetic change (i.e., an antigenic shift) – H5N1 (Avian) & H1N1 (Swine)

- A virulent virus with the capacity to cause serious illness and death

H2NX – H7N3?
Factors Causing Pandemics—Conditions Favoring a Pandemic

• A susceptible population with little or no immunity
• A virus that is transmitted efficiently from person to person

H2NX – H7N3?
Discussion & Questions

• What’s different?
• Environment
  • Climate
• Host
  • Connectedness
  • herd immunity
Discussion & Questions

• What else is different?
  • Pathogen
    • Selective Pressure
  • Technology
    • vigilance
    • treatment

Environment  

virus  

host  

disease
Pandemic Influenza: Emergency Planning and Community Preparedness

Available from:
Amazon
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