Pandemic Influenza in New York City: Understanding the impact on continuity

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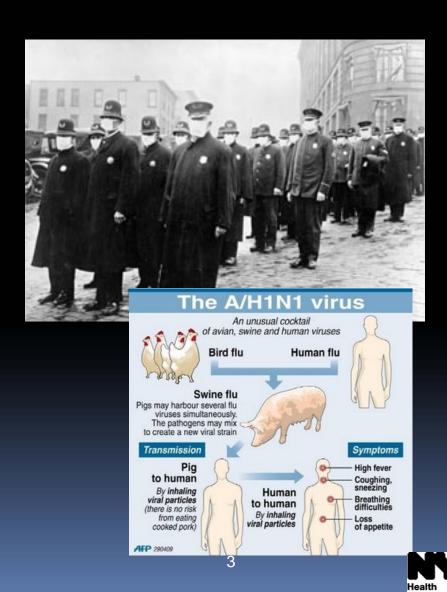


- What is pandemic influenza?
- What is the role of public health?
- What is the potential impact on continuity?
- Questions?



What is pandemic influenza?

- A pandemic is a global disease outbreak.
- An influenza pandemic occurs when a new influenza A virus emerges for which there is little or no immunity in the human population, begins to cause serious illness and then spreads easily personto-person worldwide.



What is pandemic influenza?

"All that is called flu, is not necessarily flu"

Pandemic characteristic:

- Occurs in waves (approximately 3, 8-12 weeks each)
- Attack rate of up to 40% in school-aged children and 20% in working adults
- Fatality rate of up to 2% in infected

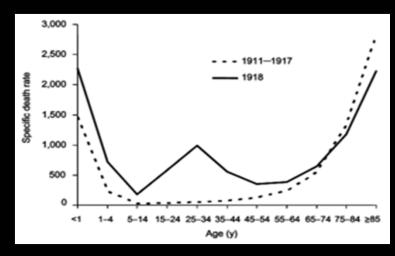


Symptoms:

- Fever (usually high)
- Headache
- Extreme tiredness
- Dry cough
- Sore throat
- Runny or stuffy nose
- Muscle aches
- Stomach symptoms, such as nausea, vomiting, and diarrhea, also can occur but are more common in children than adults
- Lasts up to 5 days, with some symptoms lasting up to 2 weeks
- Approx 1,100 New Yorkers die every year from seasonal flu and pneumonia



1918- The 'Spanish Flu'

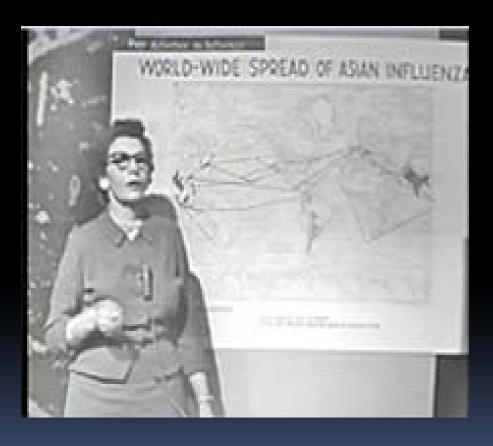




- **1**918-1920
 - First identified in Ft. Riley, KS
 - Within a month, 1,100 soldiers were ill
- Took appox. 6 months to travel worldwide – before commercial air flight!
- Approximately 40-70 million deaths worldwide
 - Mortality rates as high as>5% among some groups
- Unusual pattern of mortality
 - young, otherwise 'healthy' adults



1957 & 1968



- Known as the 'Asian' and 'Hong Kong' flus
- Far less deadlyapproximately 1-2 million global deaths each
- More localized outbreaks
- 1957 noted for increased susceptibility and mortality in children



2009 H1N1 aka "Swine Flu": Rapid response, long-term impacts

April 15:

CDC report on CA/TX H₁N₁ cases

April 23 (Thurs):

CDC call re: Human-Human trans. in CA

DOHMH sends Lab Alert requesting all flu A isolates be sent to PH Lab

Report of school cluster of "strep throat"

April 24 (Fri):

1st reports received of H1N1 in Mexico Increasing # cases at school outbreak DOHMH team sent to obtain swabs

April 25 (Sat):

Lab identifies non-subtypeable flu A
DOHMH Incident Command System activated

April 26 (Sun):

CDC confirms novel H1N1

NYC press conference with Mayor and Commissioner of Health





Many infections, particularly in children

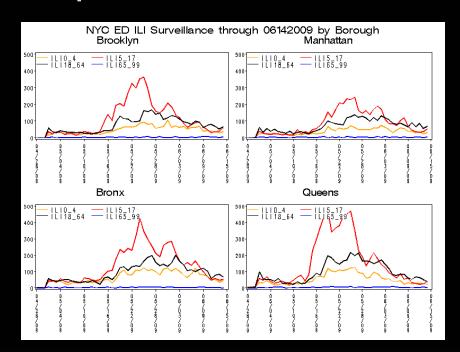
- In NYC, an estimated 750,000 to 1 million people became ill with H1N1, with 65 identified deaths (April-Sept. 2009)
- Approximately half saw a health care provider
- Most recovered completely within 4 to 5 days
- Rapid spread, high rates of illness in children
- Low rates among elderly
- Outbreak period was approximately 2 months, with 2nd wave in the Fall





What is the role of public health?

- Surveillance & Epidemiology
 - What is it, who gets it, how bad will it be?
- Vaccine Management
 - School clinics, provider access
- Antiviral Distribution
 - Pharmacy distribution, access
- Healthcare Systems Support
 - Coordination & information
- Non-Pharmaceutical Interventions
 - Public health recommendations
- Mental Health
 - Support and guidance for providers
- Communication And Outreach
 - Public, community, and provider focused











Outreach

- Public messaging during event
 - In three languages (English, Spanish, Chinese) with capacity for many more
- Ready NY
 - In collaboration with OEM
 - 'Branded' preparedness campaign
 - Over 15,000 downloads; 300k printed
- Provider outreach
 - "HANs"
- 311
 - Over 54,000 calls (H1N1)
- Website
 - www.nyc.gov/flu



Preparing for a pandemic

Before:

- Know your staff
 - Are they vulnerable?
 - How can you assist them?
- What will your demand be?
 - Not all transactions will be impacted equally
 - Can you step-up/ cut back?
- Who do you work with?
 - Who are your partners/ contractors?
 - What is their plan?
- What is your 'breaking point'?
 - What are your critical processes?
 - At what point do you fail?

During:

- Emphasize preventive measures:
 - Stay home from work if they have fever and cough and not to return to work until 24 hours after symptoms resolve
 - Wash/sanitize hands often
 - Avoid touching mouth and nose
 - Encourage social distancing
 - Cover coughs and sneezes
- Be an information leader
- Encourage seasonal and pandemic influenza vaccinations
- Disasters are a time of increased vulnerability. Be present!



Questions?

I think it's best if I work from home today rather than risk infecting people with my paralyzing fear of swine flu.





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