

# Pandemic H1N1 Influenza

## What We Know Today



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[www.columbuspandemicflu.org](http://www.columbuspandemicflu.org)



## Pandemic H1N1 Update

# Public Health Predictions

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### Pandemic H1N1

- Could strike up to 50% of U.S. population
  - Estimated 100,000 deaths or more
- New at-risk groups
  - Pregnant women
  - Young persons
    - 6 months–24 years
  - Minority populations
    - Four times more likely to be hospitalized

### Seasonal

- 36,000 deaths in U.S. per year
- More than 200,000 hospitalized in U.S. per year

# Pandemic Influenza 2009

- April – August 2009
  - 1 million infected in US
  - 9,036 hospitalizations
  - 593 deaths
- Since August 30, 2009
  - *New reporting for ILI*
  - 10,082 hospitalizations
  - 936 deaths
  - Novel virus, low mortality, high transmissibility
  - 91% ILI are due to Influenza A H1N1



# What Can You Do?

Wash your hands



Cover your cough



Stay home if you're sick



Get your flu shots



# Limiting the Spread Use of Hand Sanitizers

- Use brand with at least 60% alcohol
- Divide sanitizer into palms and scratch in with fingernails (to clean under nails).
- Cover all surfaces of hands and fingers.
- Rub for at least 15 seconds until absorbed or evaporated.
- Do not wipe excess - works by evaporation.
- Use soap and warm water after every 5-10 uses to avoid build-up.



# Cover Your Cough

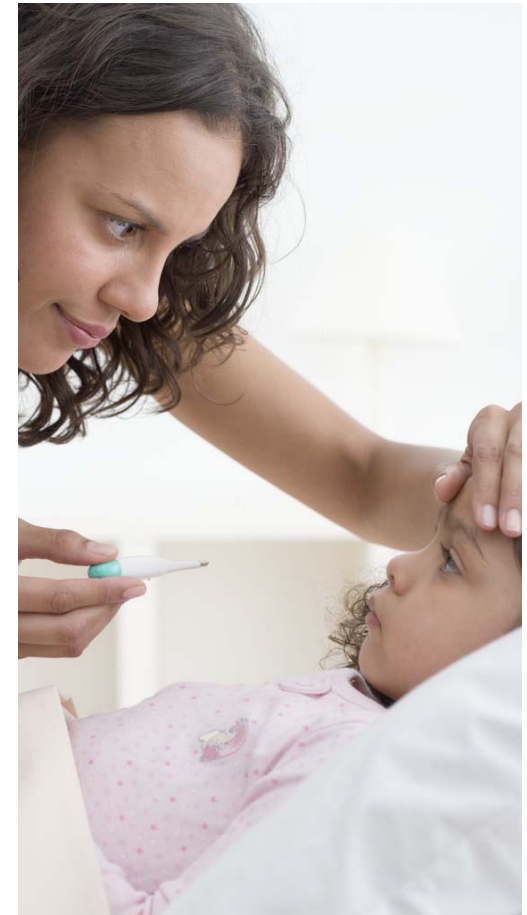
- Cover mouth and nose with tissue, throw tissue away, and then wash hands
- Cough or sneeze into upper sleeve, *not into bare hands*



# Pandemic H1N1

## Home Care

- Care for H1N1 flu is like seasonal flu care:
  - Monitor symptoms
  - Use meds to treat symptoms
  - Prevent dehydration
  - Reduce Fever
- Increase disinfection of home surfaces
- Separate ill household member from others - use one person as caregiver
- Ill person's dishes and clothes can be washed with the rest - use soap and hot water



## Pandemic H1N1

# Testing & Medical Treatment

- H1N1 Diagnosis
  - Limited testing
  - Based on Influenza like symptoms
- Antiviral treatments
  - Can prevent complications if taken in time
  - Tamiflu currently effective against influenza A virus (H1N1)
  - Use for severely ill (hospitalized) and those with Influenza like illness who are at high risk for complications



## Vaccines

# Pandemic H1N1 Influenza Vaccine

- Vaccination Priority Groups
  - Healthcare workers and emergency personnel
  - Pregnant women
  - Household contact of children less than 6 months old
  - Children and young adults 6 months – 24 years
  - Non-elderly adults 25-64 with underlying conditions
  - *Approximately 160 million Americans in total*



# Expected Vaccine Providers

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- Medical Offices
  - Pediatricians
  - OB/GYN
  - FQHC
  - Family physicians
- Retail Pharmacies
- Public Health Vaccine Clinics

# Public Health Vaccine Plan

Week 1	EMS and healthcare workers with direct patient care*
Weeks 2 & 3	Community-based vaccination clinics <i>Target pregnant women, caregivers of children 6 months of age or younger, children 4 or younger, and medically fragile children/youth*</i>
Week 4	School-located vaccination clinics <i>Target previous groups and school-aged children and up*</i>

**Will expand to entire community as available**

*\*Depends on formulation and product availability*

# Influenza Vaccine Safety

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- Seasonal influenza vaccine has very good safety profile
- H1N1 influenza vaccine will have similar safety profile as seasonal influenza vaccine, same process
- Common side effects are mild such as soreness, redness, tenderness, swelling at injection site
- All vaccines monitored for safety by CDC via:
  - VAERS (Vaccine Adverse Event Reporting System)
    - CDC and FDA
  - VSD (Vaccine Safety Datalink)
    - CDC and Managed Care organizations (MCOs)

# Influenza vaccines and Guillain-Barre' Syndrome (GBS)

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- GBS is a rare disorder
  - 3,000- 6,000 people develop the disease each year in the U.S. (1-2 people/100,000)
  - Most people fully recover
  - In rare cases, people die
- Causes of GBS:
  - 2/3 of people with GBS, develop it days to weeks following a diarrheal or respiratory illness
  - Infection with *Campylobacter jejuni* most common
  - On rare occasions can develop it after receiving a vaccine
- GBS in 1976
  - Small risk of GBS following swine flu vaccination
  - An additional 1 case/1,000, 000
  - Research unable to identify cause

# Influenza Vaccine and Thimerosal

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- Thimerosal is a mercury based preservative to prevent the growth of microorganisms in multi-dose vials
- The H1N1 vaccine will come in several formulations
  - The multi-dose vial will contain thimerosal
- Numerous studies show no association with thimerosal and autism
- Since 2001, FDA has not licensed any new vaccine for children that contains thimerosal

# H1N1 Vaccine Formulations

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- Injectable Multi-dose
  - Inactivated, with Thimerosal
- Injectable Single-dose
  - Inactivated, Pre-filled, Thimerosal-free
- Nasal Spray (FluMist)
  - LAIV (*live, intranasal influenza vaccine*)
  - Healthy 2-49 year olds (non-pregnant)

# Vaccine Availability

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# Information Tools

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- For up-to-date & important information:
  - Facebook - [www.facebook.com/ColumbusFluInfo](http://www.facebook.com/ColumbusFluInfo)
  - Twitter - [www.twitter.com/ColumbusFluInfo](http://www.twitter.com/ColumbusFluInfo)
  - Central Ohio Community Flu Hotline 211 (221-2255)
  - Seasonal Flu – Vaccine4me (614) 437-2900 or toll-free (888) 202-1319
  - [www.flu.gov](http://www.flu.gov)
  - [www.columbuspandemicflu.org](http://www.columbuspandemicflu.org) - primary source
  - [www.cdrsinfo](http://www.cdrsinfo) - healthcare guidelines

