pH1N1 Flu Virus (Human Swine Influenza)
Information Resources
Current as of November 13, 2009 at 4pm

Highlights

MOHLTC: H1N1 News Conference (Nov 13th edition)
   Information for Health Care Providers – pH1N1 Update

OAHPP: Weekly Synthesis of Surveillance Information, Literature & Government Updates Nov 6, 2009)

PHAC: PHAC updates recommendations on H1N1 vaccine for children
   Deaths Associated with H1N1 flu virus in Canada

FDA (US): FDA Expands Approved Use of H1N1 Vaccines to Include Infants and Children

CDC: 2009 H1N1 and People with Diabetes
   U.S. Laboratory Confirmed Influenza-Associated Hospitalizations and Deaths from August 30 to November 7, 2009

HPA (UK): The Green Book: 23a : Pandemic influenza A(H1N1)v 2009 (swine flu)


WHO: Interim planning considerations for mass gatherings in the context of pandemic (H1N1) 2009 influenza

Literature

Nature: Swine flu: One killer virus, three key questions.*

J Virol: A single-dose influenza A (H5N1) vaccine safe and immunogenic in adult and elderly patients - an approach to pandemic vaccine development.*

Arch Dis Child: Pandemic (H1N1) 2009: A clinical spectrum in the general paediatric population.*

News

Officials say China's aggressive flu-control measures helped

CDC's new estimation method raises H1N1 numbers

Vaccine shortages reported in Canada, UK
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Updates by Jurisdiction

Ontario
  Ontario Ministry of Health and Long-Term Care (MOHLTC)
  Ontario Agency for Health Promotion and Protection (OAHPP)

Canada
  Public Health Agency of Canada (PHAC)

United States
  Centers for Disease Control and Protection (CDC)
  Center for Infectious Disease Research & Policy
  Other US Sources

Europe
  United Kingdom’s Health Protection Agency (HPA)
  UK Department of Health
  European Centre for Disease Control and Prevention (ECDC)
  European Union

International
  World Health Organization (WHO)
  Pan American Health Organization (PAHO)
  Australia and New Zealand

Other Resources
  Consumer Health Information Resources
  pH1N1 Clinical Information
  Research Articles
  Clinical and Public Health Practice Tools
  Historical Resources
  Travel Advisories
**Events**

**Current / Upcoming**

**[FEB 3-5]**  
**International Symposium on Neglected Influenza Viruses**  
February 3-5, 2010 | Amelia Island, Florida  
Sponsor: International Society for Influenza and other Respiratory Virus Diseases  
**Contact:**  
Gregory C. Gray, MD, MPH | Phone: (319) 384-5008 | gregory-gray@uiowa.edu

**[NOV 30]**  
Webcast: **Planning for a Pandemic - Can History Inform Action?**  
Date: Monday, November 30, 2009, Monday at 13:00 (EST)  
Reserve your Webinar seat now at:  
https://www2.gotomeeting.com/register/941279587

**[NOV 18]**  
**Clinical Laboratory Management Association: Review Epidemiology of Novel H1N1**  
Wednesday, November 18, 2009 | 2:00 pm - 3:30 pm ET  
Cost: $199 USD per phone line  
Learning Objectives:  
- Review epidemiology of novel H1N1 in contrast to seasonal influenza  
- Discuss infection prevention and control recommendations including vaccination  
- Diagnosis of influenza  
- Review appropriate use of antivirals

**[NOV 17]**  
**COCA Conference Call : 2009 H1N1 Influenza: Pregnant Women and Newborns**  
Speakers: Dr. Sonja Rasmussen and Dr. Wanda Barfield  
Date: Tuesday, November 17, 2009 | Time: 1:00 - 2:00 PM ET  
Call-in number: 888-283-2960  
Passcode: 7113863  
The PowerPoint Presentation will be available on the COCA website on November 17th:  
http://emergency.cdc.gov/coca/callinfo.asp

**Archived**

**[NOV 10]**  
**Assembly of First Nations and Health Canada to Co-host a Virtual Summit on H1N1 Preparedness November 10th, 2009**

**[ARCHIVED]**  
**COCA conference calls**

**[ARCHIVED]**  
**U.S. DHHS H1N1 Video Briefing archive**

**[ARCHIVED]**  
**Know what to do about the flu: webcast series from the U.S flu.gov**
Ministry of Health and Long-Term Care (MOHLTC)

The Chief Medical Officer of Health for Ontario today opened the H1N1 vaccine program to two additional target groups — children 13 and under and adults 65 years of age or over with underlying health conditions.

Earlier this week, the program was also opened to include adults 65 years of age and over who reside in long-term care homes, first responders including police, firefighters and frontline institutional correctional/youth workers, and a limited number of critical pandemic response employees at MOHLTC.

Individuals who fall into the first six priority groups are still encouraged to receive their shots.

[NOV 10] Ontario Expands H1N1 Vaccination Program: Province to vaccinate first responders and seniors in long-term care

Overall, influenza activity in Ontario during week 43, 2009, was higher as compared to week 42, 2009. Ontario health units reported 1357 new confirmed cases of influenza through the integrated Public Health Information System (iPHIS). This count includes 1088 laboratory confirmed cases of pH1N1. During week 43, new laboratory confirmed cases of pH1N1 continued to be seen in all regions of Ontario. Nine new institutional influenza outbreaks were reported. For week 43, fourteen health units reported widespread influenza activity and ten health units reported localized activity, and other health units reported either ‘sporadic’ level or no influenza activity. The rate of influenza-like illness (ILI) in patients seen by sentinel physicians was much higher than the range that is expected for this time of the year based on the average ILI rate reported in week 43 from the past 3 years. A total 37 deaths were reported.

[ARCHIVED] Previous MOHLTC updates and news conference video footage

Important Health Notices / Avis de santé important

[NOV 13] Information for Health Care Providers – pH1N1 Update
Information destinée aux professionnels de la santé - MISE À JOUR SUR LA GRIPPE pH1N1.

[NOV 12] pH1N1 – Access to Supplies & Equipment

Ontario Agency for Health Protection and Promotion (OAHPP)


[NOV 10] LABstract: Testing for Pandemic Influenza A H1N1 (2009) (pH1N1) - Update
Public Health Agency of Canada (PHAC)

PHAC issues national updates on H1N1-associated deaths on Tuesdays and Thursdays at 4 pm, and will report regularly on any unusual outbreaks or clusters of illness.

**Deaths Associated with H1N1 flu virus in Canada**

<table>
<thead>
<tr>
<th>Province / Territory</th>
<th>New Deaths reported (from November 10, 2009 to November 12, 2009, 11h00 EDT)</th>
<th>Cumulative</th>
</tr>
</thead>
<tbody>
<tr>
<td>British Columbia</td>
<td>0</td>
<td>23</td>
</tr>
<tr>
<td>Alberta</td>
<td>0</td>
<td>20</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Manitoba</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Ontario</td>
<td>24</td>
<td>61</td>
</tr>
<tr>
<td>Quebec</td>
<td>0</td>
<td>35</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Newfoundland and Labrador</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Yukon</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Nunavut</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>26</td>
<td>161</td>
</tr>
</tbody>
</table>
Centers for Disease Control and Prevention (CDC) and US Department of Health and Human Services

CDC Reports The Total Number Of H1n1 Hospitalizations And Deaths Each Friday.

[U.S. Laboratory Confirmed Influenza-Associated Hospitalizations and Deaths from August 30 to November 7, 2009](Posted 2009-11-13, 11:00 AM ET Data reported to CDC by 2009-11-10, 12:00AM ET)

<table>
<thead>
<tr>
<th>Cases Defined by</th>
<th>Hospitalizations</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza Laboratory-Tests**</td>
<td>22,364</td>
<td>877</td>
</tr>
</tbody>
</table>

[U.S. Influenza-associated Pediatric Mortality](Posted November 13, 2009 (Updated each Friday) Data reported to CDC by November 7, 2009)

<table>
<thead>
<tr>
<th>Date Reported</th>
<th>Laboratory-Confirmed 2009 H1N1 Influenza Pediatric Deaths</th>
<th>Laboratory-Confirmed Influenza A Subtype Unknown Pediatric Deaths</th>
<th>Laboratory-Confirmed Seasonal Influenza</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>This Week (Week 44, November 1-7, 2009)</td>
<td>26</td>
<td>8</td>
<td>1</td>
<td>35</td>
</tr>
<tr>
<td>Since August 30, 2009</td>
<td>98</td>
<td>19</td>
<td>0</td>
<td>117</td>
</tr>
<tr>
<td>Cumulative since April 26, 2009</td>
<td>156</td>
<td>22</td>
<td>1</td>
<td>179</td>
</tr>
</tbody>
</table>

[2009 H1N1 and People with Diabetes](Updated: Information for Pregnant Women Working in Education, Child Care, and Health Care Settings)

This revised document updates the information for employed women so that it is consistent with the most recent infection control guidance posted by CDC.

[CDC Estimates of 2009 H1N1 Influenza Cases, Hospitalizations and Deaths in the United States, April – October 17, 2009](Interim Guidance: Considerations Regarding 2009 H1N1 Influenza in Intrapartum and Postpartum Hospital Settings)

This updated guidance replaces previously posted guidance entitled "Consideration Regarding Novel H1N1 Flu Virus in Obstetric Setting", dated July 6, 2009. Two steps are provided to guide the clinical management of labor, delivery and postpartum care of a mother with suspected or confirmed maternal infection with 2009 H1N1 flu, and care of the newborn.
Update: Frequently asked questions on use of influenza A(H1N1) 2009 monovalent vaccines (2009 H1N1 monovalent influenza vaccines): Practical considerations for immunization programs and providers

Letter to Providers Promoting PPSV for Adults
Pneumococcal infections have been identified as an important complication in severe and fatal cases of 2009 H1N1 influenza virus infection. CDC has written a letter to providers urging them to make sure all their adult patients with indications have received the pneumococcal polysaccharide vaccine.

Previous CDC documents and updates

Other US Sources

U.S. DHSS: Disabilities and the Flu

FDA Expands Approved Use of H1N1 Vaccines to Include Infants and Children

FDA: Letter from the Commissioner to Nation’s Healthcare Professionals on H1N1 Vaccine
US Food and Drug Administration Attempts to Ease H1N1 Vaccine Fears

University of Pittsburgh Medical Center (UPMC) Center for Biosecurity: Where Does H1N1 Influenza Information Come from? An Overview of Influenza Surveillance in the United States
The United States Centers for Disease Control and Prevention (CDC) tracks influenza illness in the U.S. through a combination of disease- and syndrome-based surveillance systems. Here we provide a brief summary of the main data sources for the CDC, explain what these sources can and cannot tell about an outbreak, and explain the differences in data collection during the spring wave of the 2009 H1N1 influenza A pandemic, the outbreaks during the summer months, and those now occurring.

Center for Infectious Disease Research and Policy

CDC's new estimation method raises H1N1 numbers
Lisa Schnirring (CIDRAP News) The US Centers for Disease Control and Prevention (CDC) today unveiled a new counting method that significantly increases the estimated numbers of pandemic H1N1 cases, hospitalizations, and deaths. At the same time, the agency said it will receive only about half the vaccine it expected this week.

Philadelphia hospital reports unusual rhinovirus outbreak
Tests at Children's Hospital in Philadelphia found that rhinovirus infections, unusually severe with lower-respiratory symptoms, have been responsible for nearly half of flu-like illnesses diagnosed at the institution this fall, the Philadelphia Inquirer reported today. The hospital routinely tests for both and saw rhinovirus activity rise before and after the flu season started. Researchers from the CDC are investigating the findings.
Colleges see small rise in flu-like illnesses
For the week ending Nov 6, US colleges reported 29 new cases of flu-like illness per 10,000 students, a 1% increase from the previous week, the American College Health Association (ACHA) reported today. There were 15 hospitalizations among the 8,951 new flu-like illnesses. The ACHA said no deaths have been reported so far and that though the illness pattern seems to be mild so far, it hopes H1N1 vaccine becomes more widely available to blunt the pandemic's impact on students.

FDA approves use of CSL's H1N1 vaccine in children
The US Food and Drug Administration (FDA) has approved the use of CSL Biotherapies’ 2009 H1N1 flu vaccine in children aged 6 months through 17 years, the company announced yesterday. The injectable vaccine was approved for adults in September. The formulation for children is available in thimerosal-free, single-dose syringes, the company said.

Officials say China’s aggressive flu-control measures helped
Chinese and foreign health officials say the aggressive and widely protested quarantine measures China has used to fight the H1N1 virus may have helped slow the disease, according to the New York Times. Although cases have mounted recently, China has not yet had a major epidemic. The director of the World Health Organization’s Beijing office said China’s control measures have worked "very well." The US Embassy said 2,046 Americans had been quarantined in China through October.

Vaccine shortages reported in Canada, UK
H1N1 vaccine clinics in Ottawa, the Canadian capital, are scheduled to close tomorrow because of a vaccine shortage, CBC News reported yesterday. The city health department said almost 190,000 people, or 22% of the population, would be vaccinated by tonight. Meanwhile, some large medical practices in the United Kingdom were running out of vaccine, as they received the same initial 500-dose allotment as small practices, according to the Pulse, a magazine for British general practitioners.

Current overview and older updates from CIDRAP
Health Protection Agency (UK)
Weekly pandemic flu media update
Weekly Epidemiological Update: 12 November 2009 (Week 46)
The Green Book: 23a : Pandemic influenza A(H1N1)v 2009 (swine flu)
Updated: Preparing for swine flu: Guidance and resources for schools, early years and other educational settings
Swine Influenza page

Department of Health (UK)
The Contribution of Medical Students to Services in Pandemic Flu
[NOV 11] The role of healthcare students (England) in pandemic flu - excluding medical students

[NOV 11] Swine flu and pregnancy: How to protect yourself and your baby

[ARCHIVE] DH Pandemic Flu site

European Centre for Disease Prevention and Control (ECDC) and European Society for Clinical Microbiology and Infectious Diseases

- Public Health Development on critical care services published;
- Weekly Influenza Surveillance Overview to be published today;
- Eurosurveillance updates published;
- Situation update – Ukraine;
- CDC estimates number of cases infected with H1N1;
- Two studies on effectiveness of seasonal influenza vaccine against pandemic influenza published;
- Total of 474 fatal cases in Europe and EFTA countries and 6 294 in the rest of the world have been reported up to date.

[NOV 12] The approaching pandemic pressures on critical care services in European hospitals - preparation is crucial

[NOV 11] Q&A on vaccines and vaccination in relation to the pandemic influenza (H1N1) 2009 (for the General Public)

[NOV 11] Q&A on vaccines and vaccination in relation to the pandemic influenza (H1N1) 2009

[NOV 11] Pandemic (H1N1) 2009 planning assumptions to end of May 2010 for EU/EEA countries

[NOV 10] ECDC Executive Update: Pandemic influenza (H1N1) 2009

[ARCHIVED] Maps, surveillance summaries and previous ECDC updates

European Union

[NOV 09] European Medicines Agency: European strategy for benefit-risk monitoring of influenza A/H1N1 vaccines adopted

[ARCHIVE] European Union Influenza H1N1 page
World Health Organization (WHO)

WHO no longer issues the global tables showing the numbers of confirmed cases for all countries. Regular updates describing the situation in the newly affected countries are provided.

- [NOV 17] Interim planning considerations for mass gatherings in the context of pandemic (H1N1) 2009 influenza
- [NOV 12] Transcript of virtual press conference with Gregory Hartl, Spokesperson for H1N1, and Dr Nikki Shindo, Medical Officer, Global Influenza Programme
- [NOV 11] Clinical management of human infection with pandemic (H1N1) 2009: revised guidance
- [NOV 10] Agreement for donation of pandemic H1N1 vaccine signed
  GlaxoSmithKline (GSK) is to donate 50 million doses of pandemic H1N1 vaccine to the World Health Organization (WHO) under an agreement signed at WHO headquarters in Geneva.
- [NOV 6] Pandemic (H1N1) 2009 - update 73
- [NOV 5] Infection of farmed animals with the pandemic virus
  Pandemic (H1N1) 2009 briefing note 15

[ARCHIVED] WHO H1N1 Guidance Documents

[ARCHIVED] Older WHO Updates

Pan-American Health Organization (PAHO)

- [NOV 9] Regional Update, Pandemic (H1N1) 2009 (published Nov 9)
  - The trends of acute respiratory disease in North America increased or were unchanged; there were 18 influenza-associated pediatric deaths reported in the United States this week
  - Caribbean countries reported variable trends in acute respiratory disease this week
  - Central America continues to report overall decreasing trends in acute respiratory disease
  - Most of South America had stable or decreasing trends of acute respiratory disease, with the exception of Colombia, which again reported an increasing trend and Argentina, which reported pockets of influenza-like illness activity in Buenos Aires and Santa Fe
  - Venezuela and Brazil are investigating cases of acute respiratory infection in the indigenous Yanomami community
  - A median of 99.7% of subtyped influenza A viruses were pandemic (H1N1) 2009
  - 113 new confirmed deaths in 8 countries were reported; in total there have been 4,512 cumulative confirmed deaths

[ARCHIVED] PAHO Influenza A (H1N1) Portal
Australia and New Zealand

[NOV 11]  **New Zealand Pandemic Influenza (H1N1) 09 Swine Flu - Update 159**

A study investigating the level of immunity New Zealanders have to pandemic influenza (H1N1) will get underway this month. Blood samples will be taken from 2500 people to see how many have been exposed to pandemic influenza and developed immunity to it. This information will be used to establish how many people are still at risk of contracting the illness.


As of 6 November 2009:

- There were 37,127 confirmed cases of pandemic (H1N1) 2009 in Australia.
- The number of new confirmed pandemic (H1N1) 2009 cases has decreased nationally with a number of jurisdictions reporting no new notifications in the last week. There were no new hospitalisations reported in the reporting period.
- Two additional deaths associated with pandemic (H1N1) 2009 infections have been reported by NSW. These relate to two adult males with vulnerable co-morbidities who died in September 2009.
- National influenza activity continued to decrease.
- The number of respiratory tests positive for influenza A and pandemic (H1N1) 2009 are now very low.
- Type A influenza is the predominant seasonal influenza type reported by all jurisdictions and the pandemic A/H1N1 2009 strain has almost replaced the current seasonal H1N1 strain. Of the seasonal influenza A notifications, influenza A/H3N2 remains the predominant strain reported by most jurisdictions.

[ARCHIVED]  **New Zealand’s H1N1 page**

[ARCHIVED]  **Australia’s H1N1 Update Bulletins**

**pH1N1 Clinical Information**

**Ebsco Influenza Portal**

Due to Pandemic H1N1 Influenza and concerns about the 2009/2010 flu season, the EBSCO Publishing Medical and Nursing editors of *DynaMed™, Nursing Reference Center™* (NRC) and *Patient Education Reference Center™* (PERC) have made key influenza information from these resources freely available to health care providers worldwide. [Contact your library for access.](#)

**Research Articles** *(1 week backfile)*

**What's new today, plus a one week backfile. Articles with an asterisk (*) indicate that a subscription is required to view the full text.** [Contact your library for access to full text articles.](#)

**Medline literature search on H1N1** *(current as of today)*


[NOV 13] **Swine flu: One killer virus, three key questions.**

[NOV 13] **A single-dose influenza A (H5N1) vaccine safe and immunogenic in adult and elderly patients - an approach to pandemic vaccine development.**

[NOV 13] **Pandemic (H1N1) 2009: A clinical spectrum in the general paediatric population.**

[NOV 13] **Containing anxiety in the wake of the H1N1 influenza pandemic: documents as sedative agents.**

[NOV 12] **Infection and death from influenza A H1N1 virus in Mexico: a retrospective analysis**

[NOV 12] **Effectiveness of 2008--09 Trivalent Influenza Vaccine Against 2009 Pandemic Influenza A (H1N1) --- United States, May--June 2009**
MMWR. November 13, 2009 / 58(44);1241-1245.

[NOV 12] **Update: Influenza Activity --- United States, August 30--October 31, 2009**
MMWR. November 13, 2009 / 58(44);1236-1241.

[NOV 12] **Letter: Future of flu vaccines: Expediting clinical trials in a pandemic**

[NOV 12] **Letter: Emergence of Oseltamivir-Resistant Pandemic H1N1 Virus during Prophylaxis**

[NOV 12] **Older Age and a Reduced Likelihood of 2009 H1N1 Virus Infection**

[NOV 12] **Letter: Pathological Changes Associated with the 2009 H1N1 Virus**
Editorial: Preparing for 2009 H1N1 Influenza

Estimation of the reproductive number and the serial interval in early phase of the 2009 influenza A/H1N1 pandemic in the USA.*

Apropos 'performance of influenza point-of-care tests in the detection of pandemic (H1N1) 2009 influenza viruses'*

Concomitant administration of seasonal trivalent and pandemic monovalent H1N1 live attenuated influenza vaccines.*

Preliminary population-based epidemiological and clinical data on 2009 pandemic H1N1 influenza A (pH1N1) from Lima, Peru.*

Infection control in mass respiratory failure: Preparing to respond to H1N1.*

Comment: InFACT: a global critical care research response to H1N1*
The InFACT Global H1N1 Collaboration (St Michael's Hospital, Toronto). Lancet. Early Online Publication November 10, 2009.

Rapid communication: A simple mathematical approach to deciding the dosage of vaccine against pandemic H1N1 influenza

Rapid communication: Pandemic influenza A(H1N1)v: Human to pig transmission in Norway?

Rapid communication: Assessing the impact of the 2009 H1N1 influenza pandemic on reporting of other threats through the Early Warning and Response System*

Public preparedness guidance for a severe influenza pandemic in different countries: a qualitative assessment and critical overview
[NOV 10] Development of a Critical Care Triage Protocol for Pandemic Influenza: Integrating Ethics, Evidence and Effectiveness*

[NOV 10] Optimizing Tactics for use of the U.S. Antiviral Strategic National Stockpile for Pandemic (H1N1) Influenza, 2009

[NOV 10] Public trust is necessary to protect the population from threats to public health*

[NOV 10] CHEST 2009: H1N1 Influenza: A Virus-Associated Acute Respiratory Distress Syndrome: Response to Combination Oseltamivir and Prolonged Corticosteroid Treatment (Abstract from conference presentation)

[NOV 9] Optimizing influenza sentinel surveillance at the state level.*

[NOV 9] News: Reassure pregnant women over swine flu vaccine, health officials urge*


[NOV 9] Pandemic preparedness - Risk management and infection control for all respiratory infection outbreaks.

[NOV 9] Influenza A (H1N1 09) - Public health lessons and questions.


Travel Advisories

[OCT 29] H1N1 Backgrournder: Planes, Trains, Ferries and Buses—Advice for Travellers, Crews and Operators

[OCT 26] Hajj Pilgrims: Recommendations for travel