pH1N1 Flu Virus (Human Swine Influenza)
Information Resources
Current as of October 27, 2009 at 4pm

Highlights

Events:  Title: CDC - HHS/ASPR Clinical Information Call on Antiviral Treatment Options in Critically Ill 2009 Influenza H1N1 Patients (Tomorrow)

MOHLTC:  Shelters Guidance Document

CDC:  Influenza A (H1N1) 2009 Monovalent Vaccine Dosage Chart

CDC et al:  Letter to professionals re pregnancy and H1N1

HPA:  Influenza Pandemic: Key Securities Market Participants Are Making Progress, but Agencies Could Do More to Address Potential Internet Congestion and Encourage Readiness

Literature

PLoS:  Targeted vs. systematic early antiviral treatment against A(H1N1)v influenza with neuraminidase inhibitors in patients with influenza-like symptoms: Clinical and economic impact


BMB:  Mathematical modelling of infectious diseases.*

CID:  Subclinical Infection with the Novel Influenza A (H1N1) Virus*

News

Obama Declaration Gives Flu Fighters Flexibility

CT scans better than Xrays for complications in hospitalized H1N1 cases

FDA approves Fluarix for pediatric H1N1 prevention
Contents

Events

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

[OCT 30] Overview of CDC Guidance on Infection Control in Healthcare Facilities (2009 H1N1 Influenza)
Date and Time: Friday October 30, 2009, 3 PM, ET (More details coming soon)

[OCT 29] Diabetes and flu both seasonal and H1N1: What clinicians need to know
Date and Time: Thursday October 29, 2009, 3 PM, ET (More details coming soon)

[OCT 28] Information on H1N1 Influenza and H1N1 Vaccination and Treatment for Children
Date and Time: Wednesday October 28, 2009, Time: 11:00 AM-12:00 PM ET
Call-in number: 888-283-2960 | Passcode: 7722271
PowerPoint Presentation will be available on the COCA website on October 28th:

[OCT 28] CDC - HHS/ASPR Clinical Information Call on Antiviral Treatment Options in Critically Ill 2009 Influenza H1N1 Patients
Date and time: Wednesday, October 28, 2009 from 3:00 -4:00 PM ET
Call-in number: 888-283-2960 | Passcode: 3659803
PowerPoint Presentation will be available on the COCA website on October 28th

[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

Archived

[OCT 26] Peramivir and other Antiviral Treatment Options for Treatment of Influenza in Hospitalized Patients for the 2009-2010 Season
(Peramivir is an Intravenous Influenza Antiviral authorized for use by the US Food and Drug Administration (FDA), subject to the Emergency Use Authorization (EUA) terms and conditions)

[OCT 21] COCA Cal: Pandemic Influenza A (H1N1) in Critically Ill Pediatric Patients
Speakers: Dr. Sunny Anand, Dr. Emily Dobyns, Dr. Jaime Fergie and Dr. Tim Uyeki

[ARCHIVED] U.S. DHHS H1N1 Video Briefing archive
- September 8: Rear Admiral Anne Schuchat (CDC) gives a briefing on updated recommendations on the use of antivirals as well as an update on the H1N1 (swine) flu.

[ARCHIVED] Know what to do about the flu : webcast series from the U.S flu.gov
- September 9: Parents and Child Care Providers
Ministry of Health and Long-Term Care (MOHLTC)

For the surveillance period of October 11 to October 17, 2009:

• Influenza activity in Ontario was higher compared to the previous week.
• More patients reporting influenza-like symptoms consulted sentinel physicians this week than the previous week.
• The rate of influenza-like illness (ILI) in patients seen by sentinel physicians continues to be above the average rate expected at this time of year.
• One health unit reported widespread influenza activity and seven health units reported localized influenza activity for the current reporting week. Other health units reported sporadic influenza activity.
• There are 4,338 confirmed cases of H1N1 flu virus reported through the integrated Public Health System (iPHIS).

As of October 21:

• 28 deaths have been reported among confirmed H1N1 cases.
• 31 people who have the H1N1 flu virus were in hospital as of 8:30 a.m. on October 21, a number of whom have underlying medical conditions. 408 other people have been hospitalized and have since been discharged.
• More hospitalized cases were reported this week compared to last week.

[OCT 23] Ontario Sends First Shipment Of 700,000 Doses Of H1N1 Vaccine To Health Units
Ontario has shipped 700,000 doses of H1N1 flu vaccine to the province’s public health units since October 21 in order to allow immunization clinics to begin next week.

[OCT 21] Ontario Will Offer H1N1 Vaccine On October 26
Beginning the week of Oct. 26, adjuvanted H1N1 flu vaccine will be offered to all Ontarians that need and want it, starting with:

• People 65 and under with chronic conditions;
• Pregnant women;
• Healthy children 6 months to under five years of age;
• People living in remote or isolated communities;
• Health care workers; and
• Household contacts and care providers of persons at high risk who cannot be immunized or may not respond to vaccine.

[OCT 27] Ontario Takes Additional Steps To Reduce H1N1 Transmission

• Emergency Departments Guidance Document
• Ambulatory Care Settings Guidance Document
• Long-Term Care Settings Guidance Document
• Pharmacies Guidance Document
• Shelters Guidance Document

[ARCHIVED] Previous MOHLTC updates and news conference video footage

Important Health Notices

[OCT 22] pH1N1 – Access to Supplies & Equipment

[OCT 14] H1N1 Update, October 14
Ontario Agency for Health Protection and Promotion (OAHPP)


[SEP 22] Laboratory Surveillance Report September 22nd

[ARCHIVED] Swine influenza outbreak page

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.*

[OCT 26] Canada Works with Australia to Ensure Early Delivery of Vaccine for Pregnant Women

[OCT 22] Deaths Associated with H1N1 flu virus in Canada [as of Oct 22]

[OCT 22] Guidance Document on the Use of Pandemic Influenza A (H1N1) 2009 Inactivated Monovalent Vaccine October 21, 2009

[OCT 22] Frequently Asked Questions - H1N1 Flu Virus

[OCT 22] Information on the H1N1 Flu Virus and Individuals with Chronic Medical Conditions

[OCT 22] Information on Seniors and the Flu Virus (Seasonal Flu and H1N1 Flu)

[OCT 22] Information on Children Less Than Five Years of Age and the H1N1 Flu Virus

[OCT 22] Information on Pregnancy, Breastfeeding and H1N1 Flu Virus

[OCT 22] Considering the Options - Getting the flu versus getting a vaccine or taking an antiviral

[OCT 22] What you need to know before receiving the H1N1 Flu Vaccine

[OCT 22] H1N1 Flu Vaccine: Dosing Recommendations

[OCT 22] Recommendations for the Use of the H1N1 Flu Vaccine

[ARCHIVED] Previous PHAC documents and updates
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.

[OCT 27] Clinicians Considering the Use of Intravenous Peramivir
Clinicians considering Peramivir must read and understand the content of the FDA-issued EUA prior to initiating a request and must agree to comply with terms and conditions of authorized use of Peramivir. Emergency Use Authorization of Peramivir IV: Fact Sheet For Health Care Providers and Peramivir Online Ordering System are accessible through this link.

[OCT 27] ACIP Presentation Slides: Special July 2009 Meeting
Recommendations and Guidelines

[OCT 27] Influenza A (H1N1) 2009 Monovalent Vaccine Dosage Chart

During week 41 (October 11-17, 2009), influenza activity increased in the U.S. Flu activity is now widespread in 46 states. Nationwide, visits to doctors for influenza-like-illness are increasingly steeply and are now higher than what is seen at the peak of many regular flu seasons. In addition, flu-related hospitalizations and deaths continue to go up nation-wide and are above what is expected for this time of year.

[ARCHIVED] Previous CDC documents and updates

Other US Sources

[OCT 27] GAO: Influenza Pandemic: Key Securities Market Participants Are Making Progress, but Agencies Could Do More to Address Potential Internet Congestion and Encourage Readiness

[OCT 27] AMA/AAFP/ACOG/CDC: Letter to professionals re pregnancy and H1N1

[OCT 24] President Obama Signs Emergency Declaration for H1N1 Flu

[OCT 23] FDA Authorizes Emergency Use of Intravenous Antiviral Peramivir for 2009 H1N1 Influenza for Certain Patients, Settings

Center for Infectious Disease Research and Policy

[OCT 26] Obama’s emergency step aimed to help implement disaster plans
In a measure designed to help hospitals respond more quickly to surging numbers of pandemic H1N1 cases, President Barack Obama on Oct 24 signed an emergency
declaration that will help facilities establish alternative care sites and protocols for triage and transport.

**OCT 26**  Emergency authorization for peramivir draws fast response
Requests to use the intravenous (IV) antiviral drug peramivir in hospitalized H1N1 flu patients came quickly after the government issued an emergency use authorization (EUA) Oct 23, a Centers for Disease Control and Prevention (CDC) official said today.

**OCT 26**  Missouri suspends thimerosal ban for vaccine
The director of Missouri's health department has suspended a legal restriction so that children under age 3 and pregnant women can receive pandemic H1N1 vaccine containing thimerosal. Margaret Donnelly determined that a shortage of preservative-free vaccine was preventing these groups from being immunized, the health department said. As permitted by law, she temporarily set aside a statute that bars the groups from receiving vaccines containing thimerosal.

**OCT 26**  Chinese public's interest in H1N1 vaccine plunges
A poll finds that only 30% of Chinese would like to get the H1N1 flu vaccine, far below the 76% who said they wanted it in a poll 2 months ago, according to a report in the British newspaper The Independent. Citing safety concerns, 54% said they did not plan to be vaccinated, according to the poll by China Daily and the Web site sohu.com. The government plans to inoculate 5% of the population, about 65 million people, the story said. So far 300,000 people have been vaccinated.

**OCT 26**  AMA launches flu tools for patients, physicians
The American Medical Association (AMA) recently launched a flu assessment Web portal to help patients gauge their symptoms and to help physicians monitor their patients and manage case flow. Based on guidelines from the US Centers for Disease Control and Prevention (CDC), the symptom assessment function advises patients when they should seek care for themselves or their loved ones. The site also offers assessments relating to vaccines for pregnant women and postvaccination symptoms.

**OCT 26**  El Salvador notes flu, dengue fever co-infections
Health officials in El Salvador are reporting four cases of patients infected with influenza A H1N1 and dengue fever, according to an Oct 24 translated media report published yesterday on the ProMed e-mail listserv. Though it's not clear if the virus is pandemic H1N1, ProMed moderators suspect it is, because virus activity is increasing in El Salvador, unlike other Central American sites. Though the cases did not appear to be fatal, there was little other information about the clinical course.

[ARCHIVED]  Current overview and older updates from CIDRAP

**Health Protection Agency (UK)**

**OCT 26**  Prescribing guidance for antiviral drugs - updated

**OCT 26**  Schools guidance for children with special needs
Paediatric practice note for the management of critically ill children with pandemic (H1N1) 2009 Influenza

HPA weekly pandemic flu media update

- This week, the antiviral collection numbers in the National Pandemic Flu Service have continued to increase and this has been seen in all age groups except the 75+. The largest increase (40%) in week 42, compared with week 41, was seen in the 5-14 year olds.
- Interpretation of data to produce estimates on the number of new cases continues to be subject to a considerable amount of uncertainty. HPA modelling gives an estimate of 53,000 new cases in England last week (range 27,000 to 115,000) compared with 27,000 in week 41. This is a 96% increase. This estimate incorporates data from National Pandemic Flu Service and GP consultations.

HPA Weekly National Influenza Report (Week 42)

Swine Influenza page

Department of Health (UK)

Swine flu: guidance for planners

22 October 2009 - weekly swine flu update

Swine flu vaccines start today

Rationale for Staff Vaccination

A (H1N1) Swine Influenza - Vaccination Programme Update

Antivral prophylaxis - Guidance on the use of prophylaxis with antiviral medicines during the H1N1 (swine flu) pandemic

Collection Point Administration System (CPAS) User Guidance

DH Pandemic Flu site
European Centre for Disease Prevention and Control (ECDC) and European Society for Clinical Microbiology and Infectious Diseases

- Update from U.S.A. indicates ILI rates above threshold and pneumonia and influenza-related mortality above threshold level for season;
- Total of 280 fatal cases in Europe and EFTA countries and 5 642 in the rest of the world have been reported up to date.

[OCT 27] Confirmed outbreak of highly pathogenic avian influenza type H7N7 in poultry - Animal Health - Spain

[OCT 26] ECDC Weekly Executive Update - Pandemic H1N1 2009

- Weekly overview of non-EU countries included;
- EMEA maintains recommendation of two doses for pandemic vaccine;
- Isolated oseltamivir-resistant influenza A(H1N1)v strain identified in Hong Kong
- Total of 274 fatal cases in Europe and EFTA countries and 5 576 in the rest of the world

[OCT 23] Weekly influenza surveillance overview, October 23, 2009 - Week 42

[OCT 22] Bacterial pulmonary infections in autopsy results from pandemic influenza (H1N1) 2009 deaths in the United States

[ARCHIVED] Maps, surveillance summaries and previous ECDC updates

European Union

[OCT 26] Finland Faces First Swine Flu Death

[OCT 23] Questions and answers on the CHMP review of the recommendations on the use of pandemic H1N1 vaccines

[OCT 12] Council Conclusions on Pandemic (H1N1) 2009 – a strategic approach
2 965th Employment, Social Policy, Health and Consumer Affairs Council meeting Luxembourg, 12 October 2009
Public Safety Announcement video of items discussed at meeting

[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.

[OCT 23]  Pandemic (H1N1) 2009 - update 71

[OCT 16]  Clinical features of severe cases of pandemic influenza : Pandemic (H1N1) 2009 briefing note 13

[ARCHIVED]  WHO H1N1 Guidance Documents

[ARCHIVED]  Older WHO Updates

Pan-American Health Organization (PAHO)

[OCT 27]  Regional Update. Pandemic (H1N1) 2009. (published on October 27, 2009)

- There were eleven influenza-associated pediatric deaths reported in the United States this week and declared a national emergency due to the pandemic
- Caribbean countries reported variable trends in acute respiratory disease this week; Trinidad and Tobago reported their first deaths from pandemic influenza
- Central America had overall decreasing trends in acute respiratory disease with the exception of Guatemala, which reported an increasing trend
- Most of South America had stable or decreasing trends of acute respiratory disease, with the exception of Colombia, Ecuador, and Paraguay
- A median of 100% of sub typed influenza A viruses were pandemic (H1N1) 2009
- Two countries (Barbados and El Salvador) reported cases of co-infections of pandemic influenza and dengue
- 636 new confirmed deaths in 10 countries were reported; in total there have been 4,175 cumulative confirmed deaths
- PAHO/WHO hosted a pandemic influenza clinical management meeting last week where worldwide partners presented findings and experiences from the pandemic

[ARCHIVED]  PAHO Influenza A (H1N1) Portal

Australia and New Zealand

[OCT 26]  Australia National H1N1 Influenza 09 Update

- At noon today Australia has 37,039 confirmed cases of pandemic (H1N1) 2009
- The number of deaths associated with pandemic (H1N1) 2009 continues to increase. As of 26 October, 186 people have died. Of these deaths, four were pregnant women and 24 (12.9%) were Indigenous.
- The total number of hospitalisations in Australia since pandemic (H1N1) 2009 is identified at 4,904
The total number of deaths attributed to swine flu is now 19 following investigation of the death of a 35 year old woman who died in Waikato on 21 September – she had underlying medical conditions. Please note that this number is likely to change as the Coroner completes investigations into a number of influenza-related deaths that have occurred over the last few months.

The virus is still circulating in New Zealand, although the recorded rate of Pandemic Influenza infection has declined.

As at midday today there is no one in hospital with confirmed pandemic influenza (H1N1) 2009 or its complications. There was one person at this time last week.

The cumulative total of people in New Zealand who have returned a positive laboratory test for pandemic influenza (H1N1) 2009 is 3175, no change from last week.

New Zealand’s H1N1 page

New Pandemic Phase (PROTECT) Guidelines [Australia]

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)

The Novel 2009 H1N1 Influenza Virus Pandemic: Unique Considerations for Programs in Cardiothoracic Transplantation.


Influenza A virus subtyping: paradigm shift in influenza diagnosis.


Evaluation of a rapid molecular algorithm for detection of pandemic influenza A (H1N1) 2009 virus and screening for a key oseltamivir resistance (H275Y) substitution in neuraminidase*

Attenuation of the Influenza Virus Sickness Behavior in Mice Deficient in Toll-like Receptor 3 *
Jeannine A. Majde Brain, Behavior & Immun., In Press, Available online 25 October 2009,

Subclinical Infection with the Novel Influenza A (H1N1) Virus*

Avoiding Guillan-Barré Syndrome Following Swine Origin Pandemic H1N1 2009 Influenza Vaccination*

National and international readiness for renewed pandemic*

Improved flu screening needed at airports

Dispensing antivirals in underserved communities

Swine flu breaks out on Vancouver Island

Pandemic (H1N1) 2009 lives in some people for at least eight days after symptoms develop

Letter: T helper type immune response and H1N1 related SIRS

Letter: Spain is the first country with a common sense policy concerning swine flu promoted by health professionals

Rates of hospitalisation for acute respiratory illness and the emergence of pandemic (H1N1) 2009 virus in the Hunter New England Area Health Service
Dawood FS, Dalton CB, Durrheim DN, Hope KG. eMJA Rapid Online Publication – 26 October 2009.

Letter: Can we readily identify patients who need antibiotics in a severe influenza pandemic?
Charles PGP, Johnson PDR, Collignon PJ. eMJA Rapid Online Publication – 26 October 2009.
[OCT 26] **Relationship between equipment and infrastructure for pandemic influenza and performance in an avian flu drill.**

[OCT 26] **With Maine on board, pharmacists in all 50 states can vaccinate: H1N1 prompts emergency vaccination rules for pharmacists.**

[OCT 26] **Pandemic flu: implications for sexual and reproductive health services.**

[OCT 26] **Disaster planning: using an 'evolving scenario' approach for pandemic influenza with primary care doctors in training.**

[OCT 26] **Pandemic flu: putting plans into practice.**

[OCT 26] **Who's afraid of the flu?**
Ripley A. Time. 2009 Sep 28;174(12):38-42. No abstract available.

[OCT 26] **Policy statement--recommendations for the prevention and treatment of influenza in children, 2009 -2010.**

[OCT 26] **Cases of swine flu in England almost double in a week**
Siva, N. BMJ 2009;339:b4415

[OCT 26] **A novel assay for influenza virus quantification using surface plasmon resonance**

[OCT 26] **Rapid response bioprocessing of influenza vaccines**

[OCT 23] **Can Reactive School Closures help critical care provision during the current influenza pandemic?**

[OCT 23] **Possible hidden hazards of mass vaccination against new influenza A/H1N1: have the cardiovascular risks been adequately weighed?**
The Novel 2009 H1N1 Influenza Virus Pandemic: Unique Considerations for Programs in Cardiothoracic Transplantation


Improving the diagnostic efficiency of H1N1 2009 pandemic flu: analysis of predictive clinical signs through a prospective cohort.

Novel Influenza A (H1N1) Outbreak at the U.S. Air Force Academy Epidemiology and Viral Shedding Duration.

Safety of influenza vaccination during pregnancy.

Correspondence: Pregnancy and H1N1 infection

Alphavirus replicon particle vaccines developed for use in humans induce high levels of antibodies to influenza virus hemagglutinin in swine: Proof of concept

Use of MDCK cells for production of live attenuated influenza vaccine

Vaxfectin®-adjuvanted seasonal influenza protein vaccine: Correlation of systemic and local immunological markers with formulation parameters

Vaxfectin®, a cationic lipid-based adjuvant for protein-based influenza vaccines


**Travel Advisories**

[SEP 30] **Hajj Pilgrims: Recommendations for travel**

[AUG 28] **Travel Health Notice: Human Swine Influenza in United States**

[AUG 28] **Travel Health Notice: Swine Flu in California and Texas**

[MAY 19] **Public Health Agency of Canada no longer recommends Canadians postpone elective or non-essential travel to Mexico**