

# pH1N1 Flu Virus (Human Swine Influenza) Information Resources

*Current as of October 9, 2009 at 4pm*

---

## Highlights

WHO: [Pandemic \(H1N1\) 2009 - update 69](#)

US: [Trust for America's Health: H1N1 Challenges Ahead](#)  
New report finds hospital beds could run out in 15 states if 35 percent of Americans get H1N1.

CDC: [Interim Guidance for Influenza Surveillance: Prioritizing RT-PCR Testing in Laboratories](#)

## Literature -----

NEJM: [Hospitalized Patients with 2009 H1N1 Influenza in the United States, April-June 2009](#)

See also Reuters brief: [U.S. flu study confirms H1N1 more serious in youth](#)

[Critical Care Services and 2009 H1N1 Influenza in Australia and New Zealand](#)

## News -----

NYT: [No Resurgence — Yet — in Cities Hardest Hit by H1N1 Last Spring](#)  
One theory to explain the relative lack of flu in Boston, Philadelphia, and NY is that the earlier outbreaks conferred enough “herd immunity” to protect them now.

Reuters: [Tamiflu-resistant H1N1 teen had no Tamiflu record](#)  
A genetic mutation of influenza pandemic (H1N1) 2009 virus that is resistant to the antiviral drug Tamiflu has been detected in a Japanese teenager who had not previously been treated with the drug, a Japanese health official said.

# 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

- [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](mailto:gregory-gray@uiowa.edu)

### Archived

- [OCT 07] COCA Conference Call: [H1N1 Pediatrics Update and Overview of CDC's Child Care Guidance](#).
- [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)

- [OCT 01] [Ontario Influenza Bulletin: Surveillance Week 38 \(Sep 20 – Sep 26\)](#)  
For the surveillance period of September 20 to September 26, 2009 :
- Overall, influenza activity in Ontario was similar 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 was above the average rate expected at this time of year.
  - Health units reported either sporadic activity or no influenza activity for the current reporting week.
  - There are 4,089 confirmed cases of H1N1 flu virus reported through the integrated Public Health System (iPHIS) as of September 26, 2009.
- As of September 30 :
- 24 deaths have been reported among confirmed H1N1 cases.
  - 14 people who have the H1N1 flu virus were in hospital as of 8:30 a.m. on September 30, a number of whom have underlying medical conditions. 365 other people have been hospitalized and have since been discharged.
  - A larger number of hospitalized cases were reported this week compared to last week. No new deaths among cases were reported this week.

- [ARCHIVED] [Previous MOHLTC updates and news conference video footage](#)

## Important Health Notices

- [ARCHIVED] [Last H1N1 update was August 18](#)

## Ontario Agency for Health Protection and Promotion (OAHP)

[OCT 06] [Weekly Synthesis of Surveillance Information, Literature & Government Updates](#) (week ending Oct 2<sup>nd</sup>, 2009)

[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 08] [Deaths Associated with H1N1 flu virus in Canada](#) [as of Oct 8]  
One death reported in British Columbia since last update, 79 deaths in total.

[OCT 07] [Hand Hygiene Recommendations for Remote and Isolated Community Settings](#)

[OCT 07] [Hand Washing Techniques](#)

[OCT 07] [Canada on Track to Deliver Safe and Effective H1N1 Influenza Vaccine to Canadians](#)

[OCT 06] [Mexico Hosts High Level North American Meeting in Response to 2009 Influenza A \(H1N1\)](#)

The Government of Mexico today hosted a meeting with senior officials from Canada and the United States as part of ongoing North American efforts to address the challenges posed by the 2009 Influenza A(H1N1). The objectives of the meeting were for the three countries to take stock of efforts to date, and to continue sharing lessons learned and strategies to further prepare for and respond to the 2009 Influenza A(H1N1) virus.

[OCT 05] [FluWatch findings for Week 36 \(week ending Sep 26\)](#)

- The overall influenza activity increased for a second consecutive week, but still relatively low. The national ILI consultation rate remained similar to the previous week but was slightly above the expected range for this time of the year. The proportion of positive tests and the number of regions with localized or widespread activity were also higher than the previous week.
- BC had a particularly high influenza activity this week with almost 20% of positive influenza tests and eleven influenza outbreaks. NT was also affected with 2 outbreaks in schools and 3 new hospitalized cases due to Pandemic (H1N1) 2009.
- This week, 99.1% of the positive influenza A subtyped specimens were Pandemic (H1N1) 2009.
- The intensity of Pandemic (H1N1) 2009 in the population was low with twelve hospitalizations and no deaths reported this week. Hospitalized cases were reported from BC, SK, ON, QC and NT. As of September 26, 2009, a total of 1,479 hospitalized cases including 292 cases admitted to an intensive care unit

(ICU) and 153 cases required ventilation as well as 78 deaths had been reported since the beginning of the pandemic.

- The influenza activity increased in the U.S. for a fourth consecutive week.
- The number of confirmed cases in Mexico reached higher levels in September than the Pandemic (H1N1) 2009 peak in April.

[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 09] [Interim Guidance for Influenza Surveillance: Prioritizing RT-PCR Testing in Laboratories](#)

This document provides interim guidance for state and local health departments, hospitals, and clinicians participating in surveillance activities regarding which patients to prioritize for testing by RT-PCR for influenza surveillance. Based on the continuing spread of 2009 H1N1 virus since the spring and continuing into the fall and increased demand for influenza testing, these guidelines have been developed in an effort to prioritize patients for testing by RT-PCR for influenza for surveillance purposes.



[OCT 09] [2009 H1N1 Flu: Situation Update](#)

Cases Defined by	Hospitalizations	Deaths
Influenza and Pneumonia Syndrome*	12,384	1,544
Influenza Laboratory-Tests**	3,874	240
<b>Totals</b>	<b>16, 258</b>	<b>1,784</b>



[OCT 09] [U.S. Influenza and Pneumonia-Associated Hospitalizations and Deaths from September 27 - October 3, 2009](#)

During the week of September 27 - October 3, 2009, influenza activity continued to increase in the United States. Flu activity is now widespread in 37 states. Nationwide, visits to doctors for influenza-like-illness increased over last week and are higher than expected for this time of year. In addition, flu-related hospitalizations and deaths are increasing as well, and are higher than expected



[OCT 09] [FluView Weekly Influenza Surveillance Report](#)



[OCT 09] [CDC International Situation Update](#)

[OCT 08] [2009 H1N1 and Seasonal Flu: What You Should Know About Flu Antiviral Drugs](#)

[OCT 08] Vaccine Information Statement: [Live, Intranasal 2009 H1N1 Influenza Vaccine](#) and [Simplified Chinese translation](#)

[OCT 08] Vaccine Information Statement: [Inactivated 2009 H1N1 Influenza Vaccine](#) and [Simplified Chinese translation](#)

[OCT 08] [H1N1 Clinicians Questions and Answers](#) [Updated]

[OCT 08] [Podcast: Take 3 Actions to Fight Flu](#)

[OCT 08] [People at High Risk of Developing Flu-Related Complications](#)

[ARCHIVED] [Previous CDC documents and updates](#)

## Other US Sources



[OCT 09] [Trust for America's Health: H1N1 Challenges Ahead](#)  
New report finds hospital beds could run out in 15 states if 35 percent of Americans get H1N1.

[OCT 07] The Washington Post: [Using the Web to Diagnose Swine Flu](#)  
Are you wondering whether you or your kid is sick enough to see a doctor to get treated for swine flu? Microsoft Corp., working with doctors at Emory University, Wednesday announced the availability of an [interactive web site](#) to help.

[OCT 07] The Brookings Institute. [Economic Cost and Health Care Workforce Effects of School Closures in the U.S.](#)  
Lempel H, Hammond RA, Epstein JM. Center on Social and Economic Dynamics Working Paper No.55. September 30, 2009

[OCT 06] The US Equal Opportunity Commission: [Pandemic Preparedness In The Workplace And The Americans With Disabilities Act](#)

## Center for Infectious Disease Research and Policy



[OCT 08] [Spring wave may have given NYC some protection](#)  
New York City and a few other cities that had big H1N1 outbreaks in the spring are seeing little activity now, leading to suggestions that the spring wave spawned a significant level of population immunity, the *New York Times* reported today. City health officials believe that perhaps 20% to 40% of the population were exposed to the virus in the spring and gained immunity. But city officials and other experts agreed it would be unwise to assume that New Yorkers don't need the H1N1 vaccine.



[OCT 08] [Lack of paid sick leave could spread flu](#)  
A lack of paid sick leave could force working parents either to report to work sick with flu or to send their children to school sick, at the risk of sacrificing either income or their jobs, ABC News reports. Up to 54 million Americans, many of them self-employed or employees of small businesses, have little or no paid sick leave, an issue that advocates hope to bring before Congress.



[OCT 08] [Third of parents may say no to kids' vaccine](#)  
Concerned over the new H1N1 vaccine, or unconcerned about the seriousness of the disease, 38% of parents say they are unlikely to permit their children to be vaccinated during school programs planned by many states, according to an Associated Press (AP)-GfK poll. Federal health officials vouched for the vaccine's safety, urging

widespread inoculation. Among concerns are the newness of the vaccine and potential side-effects.



[OCT 08] [CDC unveils system to gather data on flu-like illness](#)

The CDC today announced the launch of a system to gather data about influenza-like illness (ILI) from syndromic surveillance systems run by health departments in cooperation with hospital emergency departments. The system, called Distribute, enhances existing flu surveillance by providing more details on geographic- and age-specific trends. The system involves a partnership of the CDC with the International Society for Disease Surveillance and the Public Health Informatics Institute.



[OCT 08] [Canadian H1N1 vaccination to lag US by weeks](#)

Canada's national campaign to vaccinate residents against the H1N1 flu is likely to begin in early November because attempts to move up the shots' delivery have not been successful, according to the Canadian Press. The US campaign uses multiple suppliers and began with a roll-out of aerosol vaccine; Canada uses only one manufacturer, and aerosol vaccine is not approved for sale there.



[OCT 08] [Michigan man recounts 7-week H1N1 battle](#)

A Michigan man who barely survived a battle with the H1N1 virus is expressing support for the vaccination campaign, according to ABC News. Jim Shrode, 53, was in excellent health before he fell ill with the virus in May. He was hospitalized for 7 weeks, required mechanical ventilation, and lost 37 pounds. "People need to know that the risks of the vaccine are minimal compared to the risks if you get ill with it," he said.

[ARCHIVED] [Current overview and older updates from CIDRAP](#)

## Health Protection Agency (UK)



[OCT 09] [Prescribing guidance for antiviral drugs](#)

[OCT 08] [HPA Weekly National Influenza Report](#) (Week 41)

[OCT 08] [HPA weekly pandemic flu media update](#)

- The flu-like illness rate in England from the Royal College of General Practitioners (RCGP) scheme increased to 26.3 per 100,000 in week 40. An increase was seen in most age groups.
- The main burden of flu-like illness nationally is in the 5-14 and 15-24 years age groups.
- 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. From week 37 to week 38 there was a 24% increase, 39% between week 38 to 39 and 12% from week 39 to 40. The antivirals were most collected by the 25-44 year olds but the largest increase was in the 15-24 year olds. (7,935 in week 39 to 9,675 in week 40).
- 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 18,000 new cases in England last week (range 9,000 to 38,000) compared with 14,000 in week 39.  
*This estimate incorporates data from National Pandemic Flu Service and GP consultations.*

[OCT 06] [Weekly International Summary](#) [taken from WHO data]

[ARCHIVED] [Swine Influenza page](#)

## Department of Health (UK)

[OCT 08] [Swine flu vaccination staff training video](#)

[OCT 06] [Workforce and human resources information and guidance](#)

This section contains the latest information and guidance for health professionals, in response to the swine flu pandemic.

[OCT 06] [Swine flu clinical package](#)

A set of tools for use by frontline healthcare professionals, in severe and exceptional circumstances, during a pandemic situation. This revised version has been updated to reflect changes in the guidance on the use of empirical antibiotics and on oseltamivir prescribing in young children. The package has also been revised and redesigned to clarify the circumstances in which it should be used.

[ARCHIVE] [DH Pandemic Flu site](#)

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



[OCT 09] [ECDC Daily Update: Pandemic H1N1 2009](#)

- Eurosurveillance update: Does viral interference affect spread of influenza?
- Internet search-engine based influenza-monitoring for Europe unveiled;
- Media highlights published;
- Two studies on clinical aspects of pandemic influenza published;
- Total of 198 fatal cases in Europe and EFTA countries and 4 381 in the rest of the world have been reported up to date.



[OCT 05] [ECDC Comment: N95 \(FFP2\) masks no more effective than surgical masks in protecting healthcare workers against human influenza – results of the Canadian randomised controlled trial \(RCT\) among nursing staff](#)

A well-organised controlled trial with nurses in Canadian hospitals found that during seasonal influenza epidemics there was no advantage of the use of N95 respirators (equivalent to the FFP2 level) compared to ordinary surgical mask when laboratory-confirmed influenza infection was an endpoint. This is the first published trial involving healthcare workers and is especially powerful as randomisation took place at an individual (nurse) level.

[OCT 05] [ECDC Executive Update: Pandemic influenza A\(H1N1\) 2009 \(Issue 13\)](#)

[OCT 02] [How best to use the pandemic vaccines when they become available?](#)



[OCT 01] [Scientific Advances: Comparison between the 1957 and 2009 pandemics – a close but imperfect fit](#)

[ARCHIVED] [Maps, surveillance summaries and previous ECDC updates](#)

## European Union

[OCT 06] [Why healthcare workers are a priority group for pandemic influenza A\(H1N1\) vaccination?](#)

[OCT 02] [Personal message from Commissioner Vassiliou](#)

[OCT 02] [European Medicines Agency recommends authorisation of additional vaccine for influenza pandemic \(H1N1\) 2009](#)

[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 09] [Pandemic \(H1N1\) 2009 - update 69](#)

As of 4 October 2009, worldwide there have been more than 375,000 laboratory confirmed cases of pandemic influenza H1N1 2009 and over 4500 deaths reported to WHO. As many countries have stopped counting individual cases, particularly of milder illness, the case count is significantly lower than the actual number of cases that have occurred. WHO is actively monitoring the progress of the pandemic through frequent consultations with the WHO Regional Offices and member states and through monitoring of multiple sources of data.

[OCT 06] [Address to the Regional Committee for the Eastern Mediterranean \(56th session\)](#) Dr Margaret Chan, Director-General of the World Health Organization

[ARCHIVED] [WHO H1N1 Guidance Documents](#)

[ARCHIVED] [Older WHO Updates](#)

## Pan-American Health Organization (PAHO)

[OCT 02] [Regional Update. Pandemic \(H1N1\) 2009. \(published on October 2, 2009\)](#)

Summary of the situation reported during the last week

- 8,869 new confirmed cases (146,016 cumulative cases in 35 countries).
- 158 new confirmed deaths (3,292 confirmed deaths in 25 countries).

- 98.9% of the influenza A viruses that were subtyped were pandemic (H1N1) 2009.
  - South America experienced low intensity and a decrease or unchanged trend
  - North America experienced an increasing trend despite low intensity of acute respiratory disease everywhere except for Mexico
  - Central America experienced low or moderate intensity and a decreasing trend.
  - The Caribbean experienced low or moderate intensity and an increasing trend.
- Number of confirmed cases and deaths
- As of 2nd October 2009, a total of 146,106 confirmed cases have been reported in all 35 countries in the Americas Region.
  - A total of 3,292 deaths have been reported among the confirmed cases in 25 countries of the Region.

[ARCHIVED] [PAHO Influenza A \(H1N1\) Portal](#)

## Australia and New Zealand



[OCT 09] [Australia National H1N1 Influenza 09 Update](#)

**Note: Jurisdictions are reporting data once per week on various days. All figures will be updated on Fridays.**

- At noon today Australia has 36,895 confirmed cases of pandemic (H1N1) 2009.
- As of 9 October, 185 people have died. Of these deaths, four were pregnant women and 24\* (13.11%) were Indigenous.
- **The reporting of *current hospitalisations* has been replaced by weekly reporting of *new hospitalisations***, as States and Territories have moved from reporting data daily to reporting weekly.
- There have been 24 new hospitalisations for the past week around Australia with pandemic (H1N1) 2009 [down from 36 last week]. Of these, 4 people in hospital are Indigenous Australians. There have been 10 people admitted to Intensive Care Units this week
- The total number of hospitalisations in Australia since pandemic (H1N1) 2009 is identified at 4,830.

[OCT 07] [New Zealand Pandemic Influenza \(H1N1\) 09 Swine Flu - Update 154](#)

- There are few changes to report and influenza activity including swine flu is now the same as would be expected at this time of year.
- As at midday today four people are in hospital with confirmed swine flu (H1N1) 09 or its complications – up from two last week.
- The cumulative total of people in New Zealand who have returned a positive laboratory test for swine flu (H1N1) 09 is 3174, up 11 from last week
- The number of deaths from Pandemic Influenza (H1N1) swine flu is unchanged from last week at 18. Some deaths are still being investigated by the Coroner.

[ARCHIVED] [New Zealand's H1N1 page](#)

[ARCHIVED] [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)



[OCT 09]

#### [Mistaken identity: seasonal influenza versus influenza-like illness](#)

Jefferson T. Clinical Evidence (BMJ Journals).



[OCT 09]

#### Case report: [Atypical clinical presentation of H1N1 influenza in a dialysis patient\\*](#)

Wiebe C et al. Lancet. 374(9697):1300.



[OCT 09]

#### Rapid communication: [Does viral interference affect spread of influenza?](#)

Eurosurveillance. Volume 14, Issue 40. This short communication hypothesises that rhinovirus epidemics occurring after start of school may interfere with the spread of influenza during the period when warm and humid climate decreases the influenza spread by aerosol.



[OCT 09]

#### News: [Google Flu Trends includes 14 European countries](#)

Eurosurveillance. Volume 14, Issue 40.



[OCT 09]

#### [Hospitalized Patients with 2009 H1N1 Influenza in the United States, April-June 2009](#)

Jain S et al. NEJM. 10.1056/NEJMoa0906695 [Epub ahead of print]



[OCT 09]

#### [Critical Care Services and 2009 H1N1 Influenza in Australia and New Zealand](#)

The ANZIC Influenza Investigators. NEJM. 10.1056/nejmoa0908481. [Epub ahead of print]



[OCT 09]

#### [Probabilistic indoor transmission modeling for influenza \(sub\)type viruses in Taiwan\\*](#)

Chen SC, Liao C-M. Journal of Infection. doi:10.1016/j.jinf.2009.09.015. [Epub ahead of print]



[OCT 09]

#### [Surveillance for neuraminidase-inhibitor-resistant influenza viruses in Japan, 1996-2007.\\*](#)

Tashiro M et al. Antivir Ther. 2009;14(6):751-761.



- [OCT 09] [The effects of vaccine timing on the efficacy of an acute eccentric exercise intervention on the immune response to an influenza vaccine in young adults\\*](#)  
Campbell JP et al. Brain, Behavior, and Immunity. doi:10.1016/j.bbi.2009.10.001 [Epub ahead of print]
- [OCT 08] [Influenza Vaccination Coverage Among Children and Adults.](#)  
MMWR. 2009; 58(39):1091-1095.
- [OCT 08] [Update on Influenza A \(H1N1\) 2009 Monovalent Vaccines.](#)  
MMWR. 2009; 58(39):1100-1101.
- [OCT 08] [The future of influenza vaccines](#)  
Editorial. BMJ 2009;339:b4014 . Published 6 October 2009, doi:10.1136/bmj.b4014
- [OCT 08] [Chronic Exercise Reduces Illness Severity, Decreases Viral Load, and Results in Greater Anti-Inflammatory Effects than Acute Exercise during Influenza Infection\\*](#)  
Kohut ML, Sim YJ, Yu S, Yoon KJ, Loiacono CM. J Inf Dis. 2009;200:000–000. Published online October 7, 2009. DOI: 10.1086/606014
- [OCT 08] [How to win trust over flu](#)  
Nature 461, 698 (8 October 2009,) | doi:10.1038/461698a; Published online 7 October 2009
- [OCT 08] [Economic Cost and Health Care Workforce Effects of School Closures in the U.S.](#)  
Lempel H, Epstein JM, Hammond RA. PLoS Currents: Influenza. Published online October 5, 2009.
- [OCT 08] [Swine flu and meningitis.\\*](#)  
Head C. Emerg Nurse. 2009 Sep;17(5):8. No abstract available.
- [OCT 08] [Cold weather planning: The flu pandemic that came in from the cold.\\*](#)  
Taylor J. Health Serv J. 2009 Sep 10;119(6173):24-5. No abstract available.
- [OCT 08] [Swine flu: Business as usual in a pandemic.\\*](#)  
Carlisle D. Health Serv J. 2009 Aug 13;119(6169):18-9. No abstract available.
- [OCT 08] [An update on swine-origin influenza virus A/H1N1: a review.\\*](#)  
Schnitzler SU, Schnitzler P. Virus Genes. 2009 Oct 7. [Epub ahead of print]
- [OCT 08] [Reassortment patterns in Swine influenza viruses.](#)  
Khiabani H, Trifonov V, Rabadan R. PLoS One. 2009 Oct 7;4(10):e7366.
- [OCT 08] [Slipping through the net: social vulnerability in pandemic planning.\\*](#)  
Mastroianni AC. Hastings Cent Rep. 2009 Sep-Oct;39(5):11-2. No abstract available.
- [OCT 08] [Swine flu vaccine: what is fair?\\*](#)  
Gostin LO. Hastings Cent Rep. 2009 Sep-Oct;39(5):9-10. No abstract available.

- [OCT 07] [Partial protection of seasonal trivalent inactivated vaccine against novel pandemic influenza A/H1N1 2009: case-control study in Mexico City](#)  
Garcia-Garcia L et al. BMJ 2009;339:b3928 Published 6 October 2009, doi:10.1136/bmj.b3928
- [OCT 07] [If Schools Are Closed, Who Will Watch Our Kids? Family Caregiving and Other Sources of Role Conflict among Nurses during Large r-Scale Outbreaks.](#)\*  
O'Sullivan TL et al. Prehosp Disaster Med. 2009 Jul-Aug;24(4):321-5.
- [OCT 07] [Development of a new disinfectant with very strong anti-influenza viral activity: a preliminary report.](#)\*  
Takakuwa H et al. Environ Health Prev Med. 2009 Oct 6.
- [OCT 07] [Controlling infectious disease outbreaks: Lessons from mathematical modelling.](#)\*  
Hollingsworth TD. J Public Health Policy. 2009 Sep;30(3):328-41.
- [OCT 07] [Influenza A \(H1N1\) 2009: a pandemic alarm.](#)\*  
Khanna M, Gupta N, Gupta A, Vijayan VK. J Biosci. 2009 Sep;34(3):481-9.
- [OCT 07] [Structures of receptor complexes formed by hemagglutinins from the Asian Influenza pandemic of 1957.](#)\*  
Liu J et al. Proc Natl Acad Sci U S A. 2009 Sep 28.
- [OCT 07] [Current challenges in viral hepatitis, antimicrobial resistance and the influenza pandemic.](#)\*  
Fung J. Expert Rev Anti Infect Ther. 2009 Oct;7(8):945-9.
- [OCT 07] [Influenza vaccine manufacture: keeping up with change.](#)\*  
Neuzil KM, Bright RA. J Infect Dis. 2009 Sep 15;200(6):835-7.
- [OCT 07] [Development of a real-time RT-PCR assay for a novel Influenza A\(H1N1\) virus\\*](#)  
Tao J et al. Journal of Virological Methods. In Press.
- [OCT 07] [News: People with asthma are most at risk of complications from swine flu, study shows](#)  
Ellis O. BMJ 2009;339:b4103. Published 6 October 2009, doi:10.1136/bmj.b4103.
- [OCT 06] [Summaries for Patients: Assessing the Best Way to Prevent Spread of Influenza](#)  
Annals of Internal Medicine. 2009 Dec 15;151(12).
- [OCT 06] [Respiratory Protection Against Influenza](#)  
Srinivasan A, Perl TM. JAMA. 2009;302(17):(doi:10.1001/jama.2009.1494).
- [OCT 06] [Surgical Mask vs N95 Respirator for Preventing Influenza Among Health Care Workers: A Randomized Trial](#)

Mark Loeb; Nancy Dafoe; James Mahony; et al. *JAMA*. published online Oct 1, 2009; (doi:10.1001/jama.2009.1466)

- [OCT 06] [Summaries for Patients : The Effects of Hand Washing and Facemasks on Prevention of Influenza Infection](#)  
Annals of Internal Medicine. 6 October 2009 ; 151(7):I-18  
*Summaries for Patients* are a service provided by *Annals* to help patients better understand the complicated and often mystifying language of modern medicine
- [OCT 06] [Conflict emerges over value of handwashing as a preventive flu transmission measure](#)  
Early release, published at [www.cmaj.ca](http://www.cmaj.ca) on October 5, 2009. Subject to revision.
- [OCT 06] [Effectiveness and Cost-Effectiveness of Vaccination Against Pandemic Influenza \(H1N1\) 2009](#)  
Khazeni N, Hutton DW, Garber AM, Hupert N, Owens DK. Annals of Internal Medicine. 2009 Dec 15;151(12).
- [OCT 06] [Effectiveness and Cost-Effectiveness of Expanded Antiviral Prophylaxis and Adjuvanted Vaccination Strategies for an Influenza A \(H5N1\) Pandemic](#)  
Khazeni N, Hutton DW, Garber AM, Owens DK. Annals of Internal Medicine. 2009 Dec 15;151(12).
- [OCT 06] [The Modern Crystal Ball: Influenza Forecasting With Mathematical Models](#)  
Kansagra, S. M., Farley, T. A. Annals of Internal Medicine. 2009 Dec 15;151(12).
- [OCT 06] [Initial psychological responses to Influenza A, H1N1 \("Swine flu"\)](#)  
Robin Goodwin R, Haque S, Neto F, Myers LB. *BMC Infectious Diseases* 2009, 9:166
- [OCT 06] [Antiviral drugs for treatment of patients with pandemic \(H1N1\) 2009 virus \[letter\].](#)  
Hartley DM, Nelson NP, Perencevich EN. *Emerg Infect Dis*. 2009 Nov; [Epub ahead of print]
- [OCT 06] [Evidenced-based tool for triggering school closures during influenza outbreaks, Japan.](#)  
Sasaki A, Gatewood A, Ozonoff A, Suzuki H, Tanabe N, Seki N, et al. *Emerg Infect Dis*. 2009 Nov; [Epub ahead of print]
- [OCT 06] [\[Influenza pandemic of novel \(H1N1\) 2009 virus in Chile: How we dealt with the first wave?\]](#)  
Dabanch P J, Perret P C. *Rev Chilena Infectol*. 2009 Aug;26(4):307-8. Epub 2009 Sep 23. Spanish. No abstract available.
- [OCT 06] [The first novel influenza A \(H1N1\) fatality despite antiviral treatment and extracorporeal membrane oxygenation in Hong Kong.](#)

Liong T, Lee KL, Poon YS, Lam SY, Chan CP, Yue CS, et al. Hong Kong Med J. 2009 Oct;15(5):381-4.

[OCT 06] [Differential susceptibility of different cell lines to swine-origin influenza A H1N1, seasonal human influenza A H1N1, and avian influenza A H5N1 viruses.\\*](#)

Li IW, Chan KH, To KW, Wong SS, Ho PL, Lau SK, et al. J Clin Virol. 2009 Oct 2. [Epub ahead of print]

[OCT 06] [Antibacterial agents in patients with swine flu.\\*](#)

Ellis C. Int J Antimicrob Agents. 2009 Oct 2. [Epub ahead of print] No abstract available.

[OCT 06] [H1N1 Flu: Another possible diagnosis.\\*](#)

Cazanave C, Dauchy FA, Dupon M, Dutronc H, Fleury H. Med Mal Infect. 2009 Oct 2. [Epub ahead of print] No abstract available.

[OCT 06] [Detection of Influenza A H1N1 and H3N2 Mutations Conferring Resistance to Oseltamivir using Rolling Circle Amplification.\\*](#)

Steain MC, Dwyer DE, Hurt AC, Kol C, Saksena NK, Cunningham AL, Wang B. Antiviral Res. 2009 Sep 30. [Epub ahead of print]

[OCT 06] [Seasonal resurgence of the H1N1 virus.\\*](#)

Blanchard J. AORN J. 2009 Oct;90(4):587-8. No abstract available.

[OCT 05] [The "Fear Factor" for Surgical Masks and Face Shields, as Perceived by Children and Their Parents](#)

Sarah E. Forgie, Jeff Reitsma, Don Spady, Bruce Wright, and Kent Stobart Pediatrics 2009; 124: e777-e781.

[OCT 05] [H1N1 vaccine for prevention of pandemic influenza.\\*](#)

Med Lett Drugs Ther. 2009 Oct 5;51(1322):77-8.

[OCT 05] [Emergency Legal Preparedness Among Select US Local Governments.\\*](#)

Anderson ED, Hodge JG Jr. Disaster Med Public Health Prep. 2009 Sep 30. [Epub ahead of print]

[OCT 05] [Hospitals and the Novel H1N1 Outbreak: The Mouse That Roared?\\*](#)

Hanfling D, Hick JL. Disaster Med Public Health Prep. 2009 Sep 30. [Epub ahead of print] No abstract available.

[OCT 05] [Library of Prefabricated Locked Nucleic Acid Hydrolysis Probes Facilitates Rapid Development of Reverse-Transcription Quantitative Real-Time PCR Assays for Detection of Novel Influenza A/H1N1/09 Virus.\\*](#)

Wenzel JJ, Walch H, Bollwein M, Niller HH, Ankenbauer W, Mauritz R, et al. Clin Chem. 2009 Oct 1. [Epub ahead of print]

[OCT 05] [Update on 2009 pandemic influenza A \(H1N1\) virus.](#)

Gordon SM. *Cleve Clin J Med*. 2009 Oct;76(10):577-82.

- [OCT 05] [Influenza A/H1N1 from a pig perspective.](#)  
Nava-Ocampo AA, Velázquez-Armenta EY, Alonso-Spilsbury M, Mota-Rojas D. *Can Vet J*. 2009 Jul;50(7):773-4. No abstract available.
- [OCT 2] [Rethinking Influenza.](#)\*  
Rappuoli R, Del Giudice G, Nabel GJ, Osterhaus ADME, Robinson R, Salisbury D, Stöhr K, Treanor JJ. *Science* 2 October 2009: Vol. 326. no. 5949, p. 50 DOI: 10.1126/science.1179475
- [OCT 2] [Which factors are important in adults' uptake of a \(pre\)pandemic influenza vaccine?](#)  
Zijregtop EAM, et al. *Vaccine* . 2009. In Press, Uncorrected Proof, Available online 2 October 2009.
- [OCT 2] [The Shifting Demographic Landscape of Influenza](#)  
Bansal S, Pourbohloul B, Grenfell B, Ancel Meyers L. *PLoS Currents: Influenza*. 2009. Published October 2, 2009.
- [OCT 2] [How to maintain surveillance for novel influenza A H1N1 when there are too many cases to count](#)  
Lipsitch M, Hayden FG , Cowling BJ , Leung GM . *Lancet*. 2009; 274(9696):1212.
- [OCT 1] [Surgical Mask vs N95 Respirator for Preventing Influenza Among Health Care Workers Published October 1, 2009.](#)  
Loeb M et al. *JAMA*. 2009;302(17):(doi:10.1001/jama.2009.1466). Oct 1
- [OCT 1] [Respiratory Protection Against Influenza.](#)  
Srinivasan A, Perl TM. *JAMA*. 2009;302(17):(doi:10.1001/jama.2009.1494).
- [OCT 1] [pH1N1 supplement to the American Journal of Public Health](#)
- H1N1 Flu and the Tartar Steppe. S209
- The Strongest Prescription of All: A Week in the WOODS. S210-S215.
- A Primer on Strategies for Prevention and Control of Seasonal and Pandemic Influenza. S216-S224
- Estimating Influenza-Associated Deaths in the United States. S225-S230.
- Pandemic Influenza and Pregnancy: An Opportunity to Reassess Maternal Bioethics. S231-S235.
- The Open-Air Treatment of *PANDEMIC* INFLUENZA. S236-S242,.
- Protecting Vulnerable Populations From Pandemic Influenza in the United States: A Strategic Imperative. S243-S248.
- Pandemic Influenza and Pregnant Women: Summary of a Meeting of Experts. S248-S254.



Pandemic Influenza Planning: Addressing the Needs of Children. S255-S260

Protection of Racial/Ethnic Minority Populations During an Influenza Pandemic. S261-S270.

Pandemic Influenza Preparedness and Vulnerable Populations in Tribal Communities. S271-S278.

Pandemic Influenza Preparedness and Response Among Immigrants and Refugees. S278-S286.

Pandemic Influenza Preparedness and Response Among Public-Housing Residents, Single-Parent Families, and Low-Income Populations. S287-S293.

Preparing for and Responding to Pandemic Influenza: Implications for People With Disabilities. S294-S300.

Protecting Home Health Care Workers: A Challenge to Pandemic Influenza Preparedness Planning. S301-S307.

Pandemic Influenza and Farmworkers: The Effects of Employment, Social, and Economic Factors. S308-S315.

Role of the Primary Care Safety Net in Pandemic Influenza. S316-S323.

Effective Health Risk Communication About Pandemic Influenza for Vulnerable Populations. S324-S332.

Pandemic Influenza: Implications for Programs Controlling for HIV Infection, Tuberculosis, and Chronic Viral Hepatitis. S333-S339.

Pandemic Influenza and Jail Facilities and Populations. S339-S344.

What Should an Ideal Vaccine Postlicensure Safety System Be? S345-S350.

Screening for Influenza Infection in International Airline Travelers. S360-S362.

Changes in Prescribing of Antiviral Medications for Influenza Associated With New Treatment Guidelines. S362-S364.

Pandemic Influenza and Community Preparedness. S365-S371.

Enhancement of Influenza Surveillance With Aggregate Rapid Influenza Test Results: New Mexico, 2003–2007. S372-S377.

Disparities in Influenza Treatment Among Disabled Medicaid Patients in Georgia. S378-S382.

Effects of an Ongoing Epidemic on the Annual Influenza Vaccination Rate and Vaccination Timing Among the Medicare Elderly: 2000-2005. S383-S388.

## Business Resources

- [SEP 17] [Planning for 2009 H1N1 Influenza : A Preparedness Guide for Small Business](#) [CDC along with Department of Homeland Security and U.S. Small Business Administration]
- [ARCHIVED] [Business Preparedness for Pandemic: Executive Briefing for Corporate and Governmental Decision-makers](#)
- [ARCHIVED] [Link to report from U.S. Government Accountability Office re Pandemic Planning and funding](#)

## Canadian Business

- [ARCHIVED] [H1N1 virus: A Plan for the Worst](#)

## Consumer Health Information Resources

- [ARCHIVED] [Krames Patient Education Handouts - H1N1 Flu Virus](#)
- [ARCHIVED] [MEDLINEplus - H1N1 Flu \(Swine Flu\)](#)
- [ARCHIVED] [Specialized Information Service - National Library of Medicine](#)
- [ARCHIVED] [Tufts University - \(SPIRAL\) Selected Patient Information in Asian Languages](#)

## Clinical and Public Health Practice Tools

- [AUG 18] [Infectious Disease Outbreaks: Tools and Strategies for Front-line Clinicians](#)  
Created in consultation with front-line clinicians and infectious disease experts from across Canada, this course is evidence-based and focuses on the coordination between clinical care, public health and the laboratory.
- [JUNE 15] [Algorithms from 18 US States to Assist in Decisions Regarding Testing and Treatment of H1N1](#)

## Historical Resources

- [OCT 01] [Scientific Advances: Comparison between the 1957 and 2009 pandemics – a close but imperfect fit](#)
- [SEP 29] [Salicylates and Pandemic Influenza Mortality, 1918–1919 Pharmacology, Pathology, and Historic Evidence](#)  
Starko KM. Clinical Infectious Diseases 2009;49:000–000. DOI: 10.1086/606060

- [SEP 29] [Closing The Schools: Lessons From The 1918-19 U.S. Influenza Pandemic](#)  
Stern AM et al. Health Affairs. [Epub ahead of print]
- [AUG 30] [Public Health and Medical Responses to the 1957-58 Influenza Pandemic](#)  
D. A. Henderson, Brooke Courtney, Thomas V. Inglesby, Eric Toner, Jennifer B. Nuzzo. Biosecurity and Bioterrorism: Biodefense Strategy, Practice, and Science. August 2009, ahead of print.
- [AUG 17] [A comparative study of the 1918-1920 influenza pandemic in Japan, USA and UK: mortality impact and implications for pandemic planning.](#)  
Richard SA, Sugaya N, Simonsen L, Miller MA, Viboud C. Epidemiol Infect. 2009 Aug;137(8):1062-72.
- [JUN 30] [Swine flu of 1976: lessons from the past. An interview with Dr Harvey V Fineberg](#)  
Fineberg HV. Swine flu of 1976: lessons from the past. An interview with Dr Harvey V Fineberg. Bull World Health Organ. 2009 Jun;87(6):414-5.
- [JUN 29] [The Persistent Legacy of the 1918 Influenza Virus. New England Journal of Medicine.](#)  
Morens DM, Taubenberger JK, Fauci AS. The persistent legacy of the 1918 influenza virus. N Engl J Med. 2009 Jul 16;361(3):225-9. Epub 2009 Jun 29.
- [JUN 29] [Historical Perspective — Emergence of Influenza A \(H1N1\) Viruses. New England Journal of Medicine](#)  
Zimmer SM, Burke DS. Historical perspective--Emergence of influenza A (H1N1) viruses. N Engl J Med. 2009 Jul 16;361(3):279-85. Epub 2009 Jun 29.
- [ARCHIVED] [Nonpharmaceutical Interventions Implemented by US Cities During the 1918-1919 Influenza Pandemic](#)  
Markel H, Lipman HB, Navarro JA, et al. Nonpharmaceutical interventions implemented by US cities during the 1918-1919 influenza pandemic. JAMA. 2007;298(6):644-654.
- [ARCHIVED] [The Swine Flu Affair: Decision-Making on a Slippery Disease](#)  
Neustadt RE, Fineberg HV. The Swine Flu Affair: Decision-Making on a Slippery Disease. Washington: US Department of Health, Education, and Welfare; 1978. Online book.

## 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](#)