

# pH1N1 Flu Virus (Human Swine Influenza) Information Resources

*Current as of December 4, 2009 at 4pm*

---

## Highlights

PHAC: [Vaccine Surveillance Report](#)

HPA: [Swine flu vaccination for pregnant women: frequently asked questions](#)

EU: [EMA agency publishes first weekly pandemic pharmacovigilance update](#)

WHO: [Pandemic \(H1N1\) 2009 - update 77](#)

[Transcript of the 3 December 2009 press briefing](#)

## Literature -----

MMWR: [Safety of Influenza A \(H1N1\) 2009 Monovalent Vaccines: United States, October 1--November 24, 2009](#)

EID: [Severe Pneumonia Associated with Pandemic \(H1N1\) 2009 Outbreak, San Luis Potosí, Mexico](#)

[Fatal Case of Pneumonia Associated with Pandemic \(H1N1\) 2009 in HIV-Positive Patient \[letter\]](#)

[Oseltamivir- and Amantadine-Resistant Influenza Virus A \(H1N1\)](#)

## News -----

CDC : [In The News Question & Answer on Antiviral Usage During the Pandemic](#)

# 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)

[ONGOING] "H1N1 and Pregnancy: Key Considerations for Vaccination and Management": Online Learning Program for Health Professionals  
Learning objectives:

1. Appreciate the risks posed by H1N1 infection to pregnant women and the fetus.
2. Identify the position of pregnant women in the Canadian and Provincial H1N1 vaccine priority lists.
3. Identify the benefits and risks of H1N1 vaccination in pregnancy.
4. Understand the differences between adjuvanted and unadjuvanted H1N1 vaccines for pregnant women.
5. Review clinical management considerations regarding the timing and mode of delivery of pregnant women requiring hospitalization for H1N1 influenza-like-illness (ILI).
6. Discuss the role of antiviral agents in pregnant women with H1N1 infection.

We encourage all health professionals to participate in the program. Registration is free. It takes approximately 1 hour to complete the program. The English version is now available. The French version will be posted on December 3rd.

To access the program:

[www.mdBriefCase.com](http://www.mdBriefCase.com) (for physicians)

[www.rxBriefCase.com](http://www.rxBriefCase.com) (for pharmacists)

[www.AdvancingIn.com](http://www.AdvancingIn.com) (for nurses and other healthcare professionals)

### Archived

[NOV 30] Webcast: [Planning for a Pandemic - Can History Inform Action?](#)

[NOV 18] [Clinical Laboratory Management Association: Review Epidemiology of Novel H1N1](#)

[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)

[DEC 01] [Planning for Extra-Curricular Activities for School-Aged Children](#)

[DEC 01] [Guidance for Faith-Based Groups](#)

[NOV 27] [Ontario Influenza Bulletin Surveillance Week 46 \(November 15, 2009–November 21, 2009\)](#)

Overall, influenza activity in Ontario during week 46, 2009, was **lower** when compared to week 45, 2009. Ontario health units reported 960 new confirmed cases of influenza through the integrated Public Health Information System (iPHIS). This count includes 439 laboratory confirmed cases of pH1N1. During week 46, new laboratory confirmed cases of pH1N1 continued to be seen in all regions of Ontario. No new institutional influenza outbreaks were reported. For week 46, two health units reported widespread influenza activity and thirteen health units reported localized activity, and the remaining health units reported 'sporadic' level influenza activity. The rate of influenza-like illness (ILI) in patients seen by sentinel physicians remained higher than the range that is expected for this time of the year based on the average ILI rate reported in week 46 from previous years. Sixteen new deaths were reported from November 18 to November 25 compared to eighteen new deaths reported from November 12 to November 18.

[NOV 27] ["Join the Resistance" Ad Campaign Launch](#)

Ontario has launched a \$650,000 ad campaign to encourage college and university students to roll up their sleeves for the H1N1 flu shot. The ministry has arranged an e-mail blast about joining the resistance to more than 400,000 college/university students across the province. This is being done via 53 presidents of the Canadian Federation of Students and the College Students Alliance Students' Unions who are deploying the message to their student base. We have also sent posters to public health units to support clinics ongoing through the end of the school semester.

[NOV 26] [Guidance for Management of Persons with Influenza-like Illness in Group Homes during the Pandemic \(H1N1\) 2009](#)

[NOV 20] [Frequently Asked Questions on Pandemic \(H1N1\) 2009 for Health Care Providers](#)

[NOV 20] No H1N1 flu vaccine from lot A80CA007A has been administered in Ontario.

[NOV 18] [Immunization Program Open to All Ontarians on November 19](#)

[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](#)

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

[DEC 02] [Weekly Synthesis of Surveillance Information, Literature & Government Updates \(Week ending Nov 27, 2009\)](#)

[NOV 23] [Ontario Agency for Health Protection and Promotion Laboratory  
Pandemic H1N1 Surveillance Report](#)

[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.*



[DEC 04] [Vaccine Surveillance Report](#)



[DEC 04] [Deaths Associated with H1N1 flu virus in Canada](#) (as of Dec 03)

- New deaths reported Nov 26 – Dec 03: 28
- Cumulative total: 357



[DEC 04] [FluWatch Nov. 22 - 28, 2009 \(Week 47\) see attached file](#)

- Nationally, the activity levels reported this week continued to decrease compared to the previous week.
- All FluWatch influenza indicators declined during week 47.
- The Pandemic (H1N1) 2009 strain accounted for nearly 100% of the positive influenza A subtyped specimens this week.
- The intensity of Pandemic (H1N1) 2009 in the population was moderately high with 804 hospitalizations, 139 ICU admissions and 56 deaths reported this week. Hospitalized cases occurred in all provinces and territories (P/T) that reported this week while the deaths were from all P/T except PE and 3 territories. From August 30 to November 28, 2009, a total of 6,314 hospitalized cases including 957 (15.2%) cases admitted to an intensive care unit (ICU) as well as 259 deaths had been reported.
- The proportion of severe cases (ICU admissions and deaths) among all hospitalized cases was lower in the second wave than in the first wave.
- A slight decline has been experienced in all provinces and territories as indicated in the continued decreasing number of reported hospitalized cases, ICU admissions and deaths reported this week.

[NOV 27] [Weekly Distribution of the H1N1 Flu Vaccine](#)

[NOV 23] [Guidance Document on the Use of Pandemic Influenza A \(H1N1\) 2009  
Inactivated Monovalent Vaccine \(Updated\)](#)

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

## Centers for Disease Control and Prevention (CDC) and US Department of Health and Human Services



[DEC 04] [FluView: 2009-2010 Influenza Season Week 47 ending November 28,  
2009](#)

During week 47 (November 22-28, 2009), influenza activity continued to decrease in the U.S.

- 956 (15.4%) specimens tested by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories and reported to CDC/Influenza Division were positive for influenza.
- Over 99% of all subtyped influenza A viruses being reported to CDC were 2009 influenza A (H1N1) viruses.
- The proportion of deaths attributed to pneumonia and influenza (P&I) was above the epidemic threshold for the ninth consecutive week.
- Seventeen influenza-associated pediatric deaths were reported. Twelve of these deaths were associated with 2009 influenza A (H1N1) virus infection and five were associated with an influenza A virus for which the subtype was undetermined.
- The proportion of outpatient visits for influenza-like illness (ILI) was 3.7% which is above the national baseline of 2.3%. Eight of the 10 regions reported ILI at or above region-specific baseline levels. Regions 6 and 10 reported ILI below their region specific baselines.
- Twenty-five states reported geographically widespread influenza activity, 17 states reported regional influenza activity, the District of Columbia, Puerto Rico and six states reported local influenza activity, and Guam, the U.S. Virgin Islands and two states reported sporadic influenza activity.



[DEC 04] Update: [U.S. Influenza -Associated Hospitalizations and Deaths from August 30 to November 28, 2009](#)

Cases Defined by	Hospitalizations	Deaths
Influenza Laboratory-Tests**	31, 320	1,366

[DEC 04] [Update: H1N1 Flu \(Swine Flu\): Preparedness Tools for Professionals](#)  
FluAid, FluSurge, Flu Work Loss

[DEC 03] [Podcast: 2009 H1N1 Information for Parents who have Children with High-Risk Medical Conditions](#)

[DEC 02] [Alert: Fraudulent emails referencing CDC-sponsored State Vaccination Program](#)

CDC has received reports of fraudulent emails (phishing) referencing a CDC sponsored State Vaccination Program.

[DEC 01] [NEW: Caregiver Instruction Sheet: Opening and Mixing Tamiflu® Capsules with Liquids if Child Cannot Swallow Capsules](#)

This document provides instructions for caregivers on how to open and mix Tamiflu® capsules with a thick sweetened liquid for children who cannot swallow capsules.

[DEC 01] [This tool is part of Preparing for the Flu: Communication Toolkit for Schools \(Grades K-12\)](#)

This toolkit provides basic information and communication resources to help school administrators implement recommendations from CDC regarding flu.

[DEC 01] [Update: Interim Guidance for Management of Influenza-Like Illness aboard Commercial Aircraft during the 2009-10 Influenza Season](#)

This document provides updated guidance regarding management of influenza-like illness (ILI) before, during and after a flight, including personal protective measures for the crew, and reporting of ILI to CDC Quarantine Stations.

- [NOV 30] [New: 2009 H1N1 Flu International Situation Update](#)
- [NOV 30] [Questions and Answers on 2009 H1N1 Vaccine Financing](#)
- [ARCHIVED] [Previous CDC documents and updates](#)

## Other US Sources



- [DEC 03] American Society of Transplantation (AST), The Transplantation Society (TTS) and the Canadian Society of Transplantation (CST): [Guidance on Novel Influenza A/H1N1 in Solid Organ Transplant Recipients](#)
- [DEC 02] United States Department of Labor Occupational Safety & Health Administration: [Enforcement Procedures for High to Very High Occupational Exposure Risk to 2009 H1N1 Influenza](#)
- [DEC 01] AMA: [Secretary Sebelius Addresses the American Medical Association Third National Congress on Health System Readiness](#)
- [NOV 24] Flu.gov: [Updated Guidance for the Use of CSL™ 2009 H1N1 Monovalent Vaccine](#)
- [NOV 23] Letter: [APHA asks Obama to support CDC's N-95 stance](#)

## Center for Infectious Disease Research and Policy



- [DEC 03] [WHO: It's too early to say pandemic has peaked](#)  
The World Health Organization's (WHO's) top influenza expert said today it's too soon to judge whether the H1N1 influenza pandemic has passed its peak, though he acknowledged that cases are dropping in the United States and Canada.



- [DEC 03] [Flu outbreak detected in North Korea](#)  
An aid group working in North Korea said the country has detected a pandemic flu outbreak in Sinuiju, a northern city on the Chinese border, Agence France-Presse (AFP) reported today. Cases in children are increasing, and North Korean authorities have taken emergency countermeasures, the group said. The antiviral drug oseltamivir (Tamiflu) is scarce in the country. The government has not officially acknowledged any flu cases.



- [DEC 03] [EU releases vaccine safety report](#)  
The European Union's drug regulatory agency today issued its first report on the safety of novel H1N1 vaccines. The data come from a system that collects and evaluates suspected adverse reactions. So far the agency has detected no unexpected serious safety issues. It is assessing new clinical data showing a greater incidence of fever in children age 6 to 35 months who have received their second Pandemrix dose. It said reports are increasing as more vaccine doses are administered. [\[Dec 3 European Medicines Agency press release\]](#)



- [DEC 03] [Shanghai seeks blood for serum treatment](#)  
In an effort to add a serum treatment option for patients with pandemic H1N1 infections, Shanghai authorities are asking people who have been vaccinated to donate blood, *Shanghai Daily* reported today. The first donations are expected to come from 34 healthcare workers who have already been inoculated. Serum treatment is in the health ministry's recommendations for managing pandemic flu patients.

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

## Health Protection Agency (UK)



[DEC 04] [Swine flu vaccination for pregnant women: frequently asked questions](#)



[DEC 03] [Weekly International Summary](#)

[DEC 03] [Weekly Pandemic Flu Media Update](#)

[DEC 03] [Weekly Epidemiological Update: 03 December 2009 \(Week 49\)](#)

[DEC 02] [Pandemic H1N1 2009 in England: an overview of initial epidemiological findings and implications for the second wave](#)

[ARCHIVED] [Swine Influenza page](#)

## Department of Health (UK)



[DEC 03] [Pandemic influenza: indemnity cover and associated issues in England](#)

[DEC 02] [Flowchart for triage: swine flu patients - for GP practice managers and receptionists](#)

[DEC 02] [Advice from the H1N1 Critical Care Clinical Group](#)

[NOV 27] [Swine Flu H1N1: Updated Guidance for mental health services in England](#)

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

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



[DEC 04] [Daily update – Pandemic H1N1 2009 \(Dec 04 2009\)](#)

- A total of 1 024 fatal cases in Europe and EFTA countries and 8 610 in the rest of the world have been reported up to date.





[DEC 04] [Weekly Influenza Surveillance Overview for week 46/2009](#)

[NOV 30] [ECDC EXECUTIVE UPDATE Pandemic influenza \(H1N1\) 2009 Issue 21 Monday, 30 November 2009](#)

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

## European Union



[DEC 03] [EMA agency publishes first weekly pandemic pharmacovigilance update](#)

[DEC 01] [Commission approves one dose for 2 H1N1 vaccines for adults](#)

[NOV 30] [Factsheet on Pandemic \(H1N1\)2009 by European Commission](#)

[NOV 27] [EU Commissioner for Health receiving her vaccination against influenza A\(H1N1\)](#)

[NOV 26] [European Society of Clinical Microbiology and Infectious Diseases concerned that scepticism and deliberate misinformation is leading to low vaccine uptake](#)

[ARCHIVE] [European Union Influenza H1N1 page](#)

## Pan-American Health Organization (PAHO)

[DEC 02] [Regional Update. Pandemic \(H1N1\) 2009 \(Nov 23\)](#)

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

## Australia and New Zealand

*All jurisdictions in Australia have ceased daily Pandemic (H1N1) 2009 data reporting.*

[DEC 02] [New Zealand Pandemic Influenza \(H1N1\) 09 Swine Flu - Update 163](#)  
Sentinel surveillance data from the Institute of Environmental Science and Research shows that the current level of pandemic influenza activity in New Zealand is below baseline. However, there was a slight increase in visits to doctors for influenza-like illness (ILI) during the week of 16-22 November 2009. The highest number of visits to doctors for ILI was reported by the South Auckland, Rotorua and Otago health districts, and amongst children and teenagers up to 19 years old.

[DEC 02] [Australian Influenza Surveillance Summary Report No.28, 2009, Reporting Period: 14 November 2009 – 20 November 2009](#)  
As at 20 November 2009:

- There were 37,269 confirmed cases of pandemic (H1N1) 2009 in Australia.
- There have been 5 new laboratory confirmed pandemic (H1N1) 2009 notifications in reporting week 47 (ending 20 November 2009), with 5 jurisdictions reporting no new notifications.
- There have been a total of 190 pandemic influenza-associated deaths.
- National influenza activity continued to decrease.

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

[ARCHIVED] [Australia's H1N1 Update Bulletins](#)

## 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.*



[DEC 04] [Pandemic \(H1N1\) 2009 - update 77](#)



[DOC 03] [Transcript of the 3 December 2009 press briefing](#)

[DEC 03] [WHO use of advisory bodies in responding to the influenza pandemic](#)

[DEC 02] [Oseltamivir resistance in immunocompromised hospital patients](#)

[NOV 27] [WHO Weekly Press Briefing Transcript](#)

[NOV 25] [Clinical management of human infection with pandemic \(H1N1\) 2009: revised guidance](#)

[NOV 25] [Health conditions for travellers to Saudi Arabia for the pilgrimage to Mecca \(Hajj\) / Dispositions sanitaires pour les voyageurs se rendant en Arabie saoudite pour le pèlerinage à La Mecque \(Hadj\)](#)

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

[ARCHIVED] [Older WHO Updates](#)

## International Society for Infectious Diseases

[NOV 25] ProMed Posting: [Comments re: Influenza pandemic \(H1N1\) 2009 \(115\): USA \(WV\), repeat infection](#)

Out correspondents suggest 2 explanations for this case of pandemic (H1N1) 2009 virus reinfection in a mother and son. Dr Lenoir's observations suggest that reinfection may on occasion be a consequence of transient immune suppression, whereas Professor Tang cites evidence that reinfection may occur more frequently than currently supposed.

## pH1N1 Clinical Information

[ARCHIVED] [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)



[DEC 04] [Safety of Influenza A \(H1N1\) 2009 Monovalent Vaccines: United States, October 1--November 24, 2009](#)

MMWR. 2009; 58. Early release December 4, 2009.



[DEC 04] [Severe Pneumonia Associated with Pandemic \(H1N1\) 2009 Outbreak, San Luis Potosí, Mexico](#)

Gómez-Gómez A et al. Emerg Infect Dis. 2010 Jan; [Epub ahead of print]. DOI:



[DEC 04] [Fatal Case of Pneumonia Associated with Pandemic \(H1N1\) 2009 in HIV-Positive Patient](#) [letter]

Klein NC, Chak A, Chengot M, Johnson DH, Cunha BA. Emerg Infect Dis. 2010 Jan; [Epub ahead of print]. DOI: 10.3201/eid1601.090930



[DEC 04] [Oseltamivir- and Amantadine-Resistant Influenza Virus A \(H1N1\)](#)

Cheng PKC, To APC, Leung TWC, Leung PCK, Lee CWC, Lim WWL. Emerg Infect Dis. 2010 Jan; [Epub ahead of print]. DOI: 10.3201/eid1601.091304

[Dec 02] [NCCID: Purple paper: H1N1 Literature review](#)

[DEC 03] [Two cases of swine H1N1 influenza presenting with hematuria as prodrome.](#)\*

Ghiggeri GM, Losurdo G, Ansaldi F, Canepa A, Magnasco A. Pediatr Nephrol. 2009 Dec 2. [Epub ahead of print]

[DEC 03] [Estimated epidemiologic parameters and morbidity associated with pandemic H1N1 influenza](#)

Tuite AR, Greer AL, Whelan M, Winter AL, Lee B, Yan Y, Wu J, Moghadas S, David Buckeridge D, Pourbohloul B, Fisman DN. CMAJ 10.1503/cmaj.091807. Published online ahead of print December 3, 2009.

- [DEC 03] [The Emergency Use Authorization of Peramivir for Treatment of 2009 H1N1 Influenza](#)  
Birnkrant D, Cox E. NEJM. 2009; 361(23):2204-07.
- [DEC 03] [Diagnostic Testing for 2009 Pandemic Influenza A \(H1N1\)Virus Infection in Hospitalized Patients](#)  
Uyeki T. NEJM. 2009; 361(23): e110.
- [DEC 03] [Emergence of Oseltamivir-Resistant Pandemic H1N1 Virus during Prophylaxis](#)  
Baz M et al. NEJM. 2009; 361(23):2296-7.
- [DEC 03] [Early Assessment of Anxiety and Behavioral Response to Novel Swine-Origin Influenza A\(H1N1\)](#)  
Holland Jones J, Salathé M. PLoS ONE. Research Article, published 03 Dec 2009. doi:10.1371/journal.pone.0008032
- [DEC 02] [Viral load in patients infected with pandemic H1N1 2009 influenza A virus.](#)  
To KK, Chan KH, Li IW, Tsang TY, Tse H, Chan JF, et al. J Med Virol. 2009 Nov 30;82(1):1-7. [Epub ahead of print]PMID: 19950247
- [DEC 02] [Induction of cross-protective immunity against influenza A virus H5N1 by an intranasal vaccine with extracts of mushroom mycelia.](#)  
Ichinohe T, Aina A, Nakamura T, Akiyama Y, Maeyama JI, Odagiri T, et al. J Med Virol. 2009 Nov 30;82(1):128-137. [Epub ahead of print]PMID: 19950232
- [DEC 02] [Clinical Performance of a Rapid Influenza Test and Comparison of Nasal Versus Throat Swabs to Detect 2009 Pandemic Influenza A \(H1N1\) Infection in Thai Children.](#)  
Suntarattiwong P, Jarman RG, Levy J, Baggett HC, Gibbons RV, Chotpitayasunondh T, Simmerman JM. Pediatr Infect Dis J. 2009 Nov 25. [Epub ahead of print]PMID: 19949356
- [DEC 02] [GPs are told to vaccinate all priority groups against swine flu before Christmas.](#)  
Pownall M. BMJ. 2009 Nov 30;339:b5110. doi: 10.1136/bmj.b5110. No abstract available
- [DEC 01] [Rash associated with H1N1 influenza](#)  
Morgan Rosenberg, Carolyn Tram, Ayelet Kuper, and Nick Daneman CMAJ published 30 November 2009, 10.1503/cmaj.091678
- [DEC 01] [Winthrop-University Hospital Infectious Disease Division's swine influenza \(H1N1\) pneumonia diagnostic weighted point score system for hospitalized adults with influenza-like illnesses \(ILIs\) and negative rapid influenza diagnostic tests \(RIDTs\).](#)  
Cunha BA, Syed U, Stroll S, Mickail N, Laguerre M. Heart Lung. 2009 Nov-Dec;38(6):534-8. PMID: 19944879 [PubMed - in process]

- [DEC 01] [Estimating the impact of school closure on social mixing behaviour and the transmission of close contact infections in eight European countries.](#)  
Hens N, Minalu Ayele G, Goeyvaerts N, Aerts M, Mossong J, Edmunds JW, Beutels P. BMC Infect Dis. 2009 Nov 27;9(1):187. [Epub ahead of print] PMID: 19943919 [PubMed - as supplied by publisher]
- [DEC 01] [Continuous cell lines as a production system for influenza vaccines.](#)  
Genzel Y, Reichl U. Expert Rev Vaccines. 2009 Dec;8(12):1681-92. PMID: 19943763 [PubMed - in process]
- [DEC 01] [Oseltamivir Resistance and the H274Y Neuraminidase Mutation in Seasonal, Pandemic and Highly Pathogenic Influenza Viruses.](#)  
Hurt AC, Holien JK, Parker MW, Barr IG. Drugs. 2009;69(18):2523-31. doi: 10.2165/11531450-000000000-00000. PMID: 19943705 [PubMed - in process]
- [DEC 01] [Fighting the flu: H1N1 poses special challenges.](#)  
Williams B. Tenn Med. 2009 Nov;102(11):26-8. No abstract available. PMID: 19943418 [PubMed - in process]
- [NOV 30] [Mitigation of pandemic influenza: review of cost-effectiveness studies.\\*](#)  
Lugnér AK, Postma MJ. Expert Rev Pharmacoecon Outcomes Res. 2009 Dec;9(6):547-558.
- [NOV 30] [GPs are told to vaccinate all priority groups against swine flu before Christmas](#)  
Pownall M. BMJ 2009;339:b5110. Published 30 November 2009, doi:10.1136/bmj.b5110.
- [NOV 30] [The rational clinician in a pandemic setting](#)  
Bradt DA, Epstein J. Med J Aust 2009; Rapid Online Publication – 30 November 2009.
- [NOV 30] [The changing phases of pandemic \(H1N1\) 2009 in Queensland: an overview of public health actions and epidemiology](#)  
Appuhamy RD, Beard FH, Phung HN, Selvey CE, Birrell FA, Culleton TH. Med J Aust 2009; Rapid Online Publication – 30 November 2009.
- [NOV 30] [Comparison of adult patients hospitalised with pandemic \(H1N1\) 2009 influenza and seasonal influenza during the “PROTECT” phase of the pandemic response](#)  
Chang YS, van Hal SJ, Spencer PM, Gosbell IA, Collett PW. Med J Aust 2009; Rapid Online Publication – 30 November 2009.
- [NOV 30] [From where did the 2009 'swine-origin' influenza A virus \(H1N1\) emerge?](#)  
Gibbs AJ, Armstrong JS, Downie JC. Virology J 2009, 6:207 (24 November 2009)
- [NOV 30] [Severe influenza A \(H1N1\)v in patients without any known risk factor](#)  
Alonso-Tarrés C, Cortes-Lletget C, Pintado S, Ricart A. Critical Care 2009, 13:425 (19 November 2009)

- [NOV 30] [Presentation and management of critically ill patients with influenza A \(H1N1\): a UK perspective](#)  
Yeung JHY, Bailey M, Perkins GD, Smith FG *Critical Care* 2009, **13**:426 (19 November 2009)
- [NOV 27] [A case of ARDS associated with influenza A - H1N1 infection treated with extracorporeal respiratory support.\\*](#)  
Grasselli G, Foti G, Patroniti N, Giuffrida A, Cortinovis B, Zanella A, Pagni F, Mergoni M, Pesci A, Pesenti A. *Minerva Anestesiol.* 2009 Dec;**75**(12):741-745. PMID: 19940827.
- [NOV 27] [Novel H1N1 Virus Infection and Pregnancy.\\*](#)  
Satpathy HK, Lindsay M, Kawwass JF. *Postgrad Med.* 2009 Nov;**121**(6):106-112. PMID: 19940421.
- [NOV 27] [Pandemic H1N1 2009 Influenza A Virus Induces Weak Cytokine Response in Human Macrophages and Dendritic Cells and Is Highly Sensitive to Antiviral Actions of Interferons.\\*](#)  
Osterlund P, Pirhonen J, Ikonen N, Rönkkö E, Strengell M, Mäkelä SM, Broman M, Hamming OJ, Hartmann R, Ziegler T, Julkunen I. *J Virol.* 2009 Nov 25. [Epub ahead of print]. PMID: 19939920.
- [NOV 26] Perspective: [When to Consider the Use of Antibiotics in the Treatment of 2009 H1N1 Influenza–Associated Pneumonia](#)  
Wright PF, Kirkland KB, Modlin JF. *New England Journal of Medicine.* Early Online Publication. November 25, 2009. doi:10.1056/NEJMopv0910749.
- [NOV 26] Perspective: [Australia’s Winter with the 2009 Pandemic Influenza A \(H1N1\) Virus](#)  
Bishop JF, Murnane MP, Owen R. *New England Journal of Medicine.* Early Online Publication. November 25, 2009. doi:10.1056/NEJMp0910445.
- [NOV 26] Perspective: [The Emotional Epidemiology of H1N1 Influenza Vaccination](#)  
Ofri D. *New England Journal of Medicine.* Early Online Publication. November 25, 2009. doi:10.1056/NEJMp0911047.
- [NOV 26] [From where did the 2009 'swine-origin' influenza A virus \(H1N1\) emerge?](#)  
Gibbs AJ, Armstrong JS, Downie JC. *Virology Journal.* 2009;**6**:207. doi:10.1186/1743-422X-6-207.
- [NOV 25] News: [Up to a third of schoolchildren in some parts of England may already have had swine flu](#)  
*BMJ* 2009;**339**:b5051
- [NOV 25] [Emergency Influenza Drug](#)  
Kuehn BM. *JAMA.* 2009;**302**(20):2194

## Travel Advisories

[NOV 27] [WHO: Travel Safety](#)

[NOV 19] [Travel Health Notice: Global H1N1 flu virus](#)

[OCT 29] [H1N1 Backgrounder: Planes, Trains, Ferries and Buses—Advice for Travellers, Crews and Operators](#)

[OCT 26] [Hajj Pilgrims: Recommendations for travel](#)