

# pH1N1 Flu Virus (Human Swine Influenza) Information Resources

*Current as of January 8, 2010 at 12 pm*

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## Highlights

PHAC: [Taking Care of Ourselves and Our Families during the H1N1 Flu Virus](#)

[Helping Caregivers Cope with the H1N1 Flu Virus](#)

[Helping Teens Cope with the H1N1 Flu Virus](#)

[Helping Children Cope with the H1N1 Flu Virus](#)

CDC: [NEW: Flu information for People with Diabetes and Caregivers of People with Diabetes](#)

[NEW: Fact Sheet: Safety of Thimerosal in Vaccines Against 2009 H1N1 Flu](#)

WHO: [Pandemic \(H1N1\) 2009 - update 82](#)

## *Literature* -----

PLoS: [Optimal Pandemic Influenza Vaccine Allocation Strategies for the Canadian Population.](#)

PLoS: [Seasonal Influenza Vaccine Allocation in the Canadian Population during a Pandemic](#)

EuroSurveillance: [When should we intervene to control the 2009 influenza A\(H1N1\) pandemic?](#)

NEJM: [Household Transmission of 2009 Pandemic Influenza A \(H1N1\) Virus in the United States](#)

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[Centers for Disease Control and Protection \(CDC\)](#)

[Center for Infectious Disease Research & Policy](#)

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#### Europe

[United Kingdom's Health Protection Agency \(HPA\)](#)

[UK Department of Health](#)

[European Centre for Disease Control and Prevention \(ECDC\)](#)

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#### International

[World Health Organization \(WHO\)](#)

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## 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
- 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

- [DEC 16] **Topic: A SPECIAL FLU.GOV WEBCAST FOR HEALTH CARE PROVIDERS**  
Join experts from the U.S. Department of Health and Human Services and the former president of the American Medical Association answer your questions about the H1N1 virus and vaccine. Hosted by the U.S. Department of Health and Human Services, **the show airs live** on [www.flu.gov](http://www.flu.gov).
- [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

## Lessons Learned

### Jurisdictions

[Evaluation of McHenry County Department of Health's H1N1 vaccination clinic.](#)

Blog: [H1n1 lessons learned](#)

[Early lessons from the H1N1 pandemic: Critical illness in children unpredictable but survivable](#)

News: [Ten Lessons Learned from the H1N1 \(Swine\) Flu Outbreak](#)

[H1N1 Virus Update: Latin America's Experience Shows Communication, Surveillance Are Critical.](#)

## Literature

Institute of Medicine: [The Domestic and International Impacts of the 2009-H1N1 Influenza A Pandemic: Global Challenges, Global Solutions – A Workshop Summary](#)

[A new decade, a new seasonal influenza: the Council of the European Union Recommendation on seasonal influenza vaccination.](#)

Nicoll A. *Euro Surveill.* 2010;15(1):pii=19458.

Add H1N1 preparations to the start of the school year.\*

Trossman S. *Am Nurse.* 2009 Nov-Dec;41(6):10-1, 16. No abstract available.

[Clinical evaluation of rapid point-of-care testing for detection of novel influenza A \(H1N1\) virus in a population-based study in Spain\\*](#).

de la Tabla VO, Antequera P, Masiá M, Ros P, Martin C, Gazquez G, Buñuel F, Sánchez V, Robledano C, Gutiérrez F. *Clin Microbiol Infect.* 2009 Dec 29. [Epub ahead of print]

[Combination strategies for pandemic influenza response - a systematic review of mathematical modeling studies](#)

Vernon J Lee, David C Lye, Annelies Wilder-Smith. *BMC Medicine* 2009, 7:76 (10 December 2009)

[Household Transmission of 2009 Pandemic Influenza A \(H1N1\) Virus in the United States](#)

Cauchemez S, Donnelly CA, Reed C, Ghani AC, Fraser C, Kent CK, et al. *NEJM* 2009 Dec 31; 361(27); 2619-2627.

[Improving the Clinical Diagnosis of Influenza—a Comparative Analysis of New Influenza A \(H1N1\) Cases](#)

Adrian K. Ong, Mark I. Chen, Li Lin, Adriana S. Tan, Ni Win Nwe, Timothy Barkham, Seow Yian Tay, Yee Sin Leo *PLoS One* 2009. Research Article, published 29 Dec 2009 | doi:10.1371/journal.pone.0008453

[Optimal Pandemic Influenza Vaccine Allocation Strategies for the Canadian Population.](#)

Ashleigh Tuite, David N. Fisman, Jeffrey C. Kwong, and Amy Greer. *PLoS Currents: Influenza* 2010. Published online January 7 2010.

[Quantifying the impact of community quarantine on SARS transmission in Ontario: estimation of secondary case count difference and number needed to quarantine.](#)

Susan J Bondy, Margaret L Russell, Julie M L Lafleche, Elizabeth Rea. *BMC Public Health* 2009, 9:488 (24 December 2009)

[Seasonal Influenza Vaccine Allocation in the Canadian Population during a Pandemic](#)

Ashleigh Tuite, David N. Fisman, Jeffrey C. Kwong, and Amy Greer. PLoS Currents: Influenza 2010. Published online January 7 2010.

[Spread of infectious disease through clustered populations.](#)

Miller JC. J R Soc Interface. 2009 Dec 6;6(41):1121-34.

[Statewide School-located Influenza Vaccination Program for Children 5–13 Years of Age, Hawaii, USA](#)

P.V. Effler et al. Emerg Inf Dis. 2010. [Epub ahead of print]

[The 1918 influenza pandemic: Lessons for 2009 and the future.\\*](#)

Taubenberger JK, Harvey HA, Memoli MJ. Crit Care Med. 2009 Dec 31. [Epub ahead of print]

[When should we intervene to control the 2009 influenza A\(H1N1\) pandemic?](#)

Sato H, Nakada H, Yamaguchi R, Imoto S, Miyano S, Kami M. Euro Surveill. 2010;15(1):pii=19455.

## Ministry of Health and Long-Term Care (MOHLTC)

[DEC 29] [Ontario Influenza Bulletin Surveillance Week 49 \(December 13, 2009–December 19, 2009\)](#)

Note : The Influenza Bulletin provides information based on the surveillance period from **December 13 to December 19, 2009**. Case counts from the previous week are submitted to the ministry by public health units every Tuesday.

**Note : The next Ontario Influenza Bulletin covering weeks 51 and 52 (Dec. 20 to Jan. 2) will be published on Jan. 8, 2010.**

[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)

[JAN 04] [Ontario Agency for Health Protection and Promotion Laboratory Pandemic H1N1 Surveillance Report January 4<sup>th</sup>](#)

[DEC 09] [Weekly Synthesis of Surveillance Information, Literature & Government Updates \(Week ending Dec 4, 2009\)](#)

[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.*

- [JAN 07] [Deaths Associated with H1N1 flu virus in Canada](#)
  - New deaths reported Dec 30, 2009 – Jan 07, 2010 11h00 EDT: 6
  - Cumulative total: 416
- [JAN 07] [Canada to Bridge Mexico's H1N1 Flu Vaccine Requirements](#)
- [JAN 04] [Taking Care of Ourselves and Our Families during the H1N1 Flu Virus](#)
- [JAN 04] [Helping Caregivers Cope with the H1N1 Flu Virus](#)
- [JAN 04] [Helping Teens Cope with the H1N1 Flu Virus](#)
- [JAN 04] [Helping Children Cope with the H1N1 Flu Virus](#)
- [ARCHIVED] [Previous PHAC documents and updates](#)

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

- [JAN 08] [UPDATE: Weekly FluView Map and Surveillance Report for Week Ending January 2, 2010](#)
- [JAN 08] [UPDATED: Laboratory Confirmed Influenza-Associated Hospitalizations and Deaths from August 30 to January 2, 2010](#)
- [JAN 06] [NEW: Flu information for People with Diabetes and Caregivers of People with Diabetes](#)

People with diabetes are more likely to get flu-related complications like pneumonia and even be hospitalized or die from the flu than other people. Influenza may also interfere with blood glucose management. This fact sheet contains important information for diabetics.
- [JAN 05] [NEW: Fact Sheet: Safety of Thimerosal in Vaccines Against 2009 H1N1 Flu](#)

CDC is aware that pregnant women, parents of young children, and others may have questions about the safety of thimerosal in vaccines against 2009 H1N1 flu. The following fact sheet provides some information to help in making decisions.
- [ARCHIVED] [Previous CDC documents and updates](#)

## Other US Sources

- [JAN 08] Institute of Medicine: [The Domestic and International Impacts of the 2009-H1N1 Influenza A Pandemic: Global Challenges, Global Solutions – A Workshop Summary](#)

## Center for Infectious Disease Research and Policy

- [JAN 07] [College flu activity down, vaccination up](#)  
Mirroring the national pattern, flu activity at colleges continues to decline, according to the American College Health Association (ACHA). It said new cases were down 21% from the week before. One new death was reported. The attack rate was 2.7 cases per 10,000 students. The percentage of students who have been vaccinated rose slightly to 8%, with some states reaching 20% with vaccine availability improving. [[ACHA report for week ending Dec 18](#)]
- [JAN 07] [NYC's early flu cases helped steer treatment](#)  
A review of New York City's first hospitalized pandemic flu patients, used early in the outbreak to guide local and federal response, revealed that people with asthma or the obese were more likely to have severe illness, according to the latest *Morbidity and Mortality Weekly Report*. Findings that early antiviral treatment led to shorter hospital stays influenced recommendations that patients at risk for flu complications receive early oseltamivir (Tamiflu) treatment. [[Jan 8 MMWR report](#)]
- [JAN 07] [Kids' cases show false-negatives, coinfections](#)  
In a review of the first 13 pediatric patients hospitalized for pandemic flu at Johns Hopkins, researchers found that all but one had an underlying medical condition, especially asthma, and that respiratory effects from the disease varied widely. Their report, published in *Pediatric Critical Care Medicine*, also notes that rapid tests were negative in 8 of 13 children and that about a fourth developed bacterial coinfections. Half needed ventilators, but none died. [[Dec 31 Ped Crit Care Med abstract](#)]
- [JAN 07] [Turkey to cancel some vaccine orders](#)  
Turkey plans to scale back its purchase of 43 million doses of H1N1 vaccine, joining other countries taking similar steps, *Today's Zaman* newspaper reported today. The ministry said pandemic flu activity has been declining since late November. So far half of the 8 million doses Turkey has received have been administered. The ministry said one in five people have been infected with the virus, especially adults under 50, children, and pregnant women. [[Jan 7 Today's Zaman story](#)]
- [JAN 07] [H1N1 in California turkeys, Illinois pig](#)  
California officials announced that the pandemic H1N1 virus has been detected in a turkey breeding flock in the central part of the state, the American Veterinary Medical Association (AVMA) reported. The only sign of illness was a drop in egg production. Meanwhile, the US Department of Agriculture reported that its National Veterinary Services Laboratories have confirmed the virus in swine herd samples from Illinois that were collected Dec 16. [[Jan 6 AVMA report](#)]
- [JAN 06] [WHO says demand for donated vaccine may drop](#)  
Developing countries in line to receive donated H1N1 vaccine from the World Health Organization (WHO) may not want as much as the agency has been aiming to provide, the Canadian Press reported today. The WHO hoped to provide enough for

10% of the population of countries that wanted the vaccine, but the agency's Dr. Marie-Paule Kieny said that with the pandemic waning, governments are "considering whether and how much vaccine they want to deploy." [[Jan 6 Canadian Press report](#)]

- [JAN 06] [Vaccine surplus issues surface in Australia, Ireland](#)  
Australia has used only about a quarter of the pandemic vaccine doses it ordered, raising questions about a surplus, *The Australian* newspaper reported today. Though summer flu activity is low in Australia, Health Minister Nicola Roxon and the Australian Medical Association have issued new calls for the public to be vaccinated. Meanwhile, Irish news media reported today that Ireland canceled an order for 3.7 million doses of vaccine from Baxter. [[Jan 7 The Australian story](#)]
- [JAN 06] [Indian doctors request more ventilators for hard-hit city](#)  
The Indian Medical Association (IMA) has asked the government for 50 ventilators to help hospitals in Ludhiana, the largest city in Punjab state, cope with a surge of pandemic flu patients, the *Times of India* reported yesterday. Punjab is in northern India. The IMA said only 160 ventilators are currently available and there aren't enough beds and isolation rooms to handle the influx of patients. They warned that lack of proper health facilities could raise the flu death toll. [[Jan 5 Times of India story](#)]
- [JAN 06] [Rhode Island reports hospital outbreak of H1N1](#)  
Seven patients in a state hospital in Rhode Island recently contracted H1N1 flu but have since recovered, according to a report in the *Providence (R.I.) Journal*. The patients were in the Zambarano Unit of the Eleanor Slater Hospital, located in Burrillville. The outbreak was reported Dec 28, and the state's health department declared it resolved Jan 4. Staff members and other patients on the two floors where the outbreak occurred were treated with oseltamivir. [[Jan 6 Providence Journal report](#)]
- [JAN 06] [Los Angeles cab drivers offered free vaccine](#)  
The nine franchised taxi companies in Los Angeles are offering free H1N1 vaccination to their 3,700 drivers this week, according to an Associated Press report. Norton Medical Industries, a company that tests employees for drugs and alcohol, will administer the shots, the report said. With an increased supply, Los Angeles County recently made the vaccine available to everyone. [[Jan 5 AP report](#)]
- [JAN 05] [Leaders line up for flu shots](#)  
More high-profile leaders are getting their pandemic flu vaccine, including Margaret Chan, the director-general of the World Health Organization, who got her shot on Dec 30, Reuters reported. Meanwhile, state lawmakers from Indiana had a chance to get vaccinated today at a clinic held as the legislative session reconvened, the Associated Press reported. The state's health commissioner said she hoped the lawmakers would set a good example for constituents by getting their shots. [[Jan 5 Reuters story](#)]
- [JAN 05] [Researchers create insect-cell H1N1 vaccine](#)  
In an effort to develop new strategies to more quickly produce pandemic vaccine, Austrian researchers have used an insect cell technique to create a recombinant virus-like particle H1N1 vaccine for use in mouse studies. Their report appeared in *Biotechnology Journal*. They wrote that the process took 10 weeks. US researchers have already developed a similar system for making seasonal flu vaccine. [[Dec 29 Biotechnol J abstract](#)]



- [JAN 05] [National flu vaccine week takes shape](#)  
Last month federal officials delayed National Influenza Vaccination Week to coincide with more plentiful pandemic vaccine, and they recently announced themes for each day of the week, which starts Jan 10. On Jan 11, efforts will focus on the general public and healthcare workers. The following 2 days will target those at high risk for flu complications, followed by children, pregnant women, and infant caregivers. Jan 14 messages will aim for young adults, and the next day will feature seniors. [[Jan 2 HHS news release](#)]
- [JAN 05] [IOM issues report on impacts of pandemic](#)  
The Institute of Medicine (IOM) recently published a report on the US and international impacts of the H1N1 pandemic, based on a workshop that was held in mid September and involved a committee of about 25 experts. The report outlines the course of the pandemic to that point and describes the scientific and public health responses to it. The body of the report runs about 75 pages, but numerous appendices and related materials swell its total length to several hundred pages. [[IOM report title page](#)]
- [JAN 04] [China logs end-of-year flu increase](#)  
All but 6 of China's 659 deaths from H1N1 flu were recorded in the last 2 months of 2009, raising the possibility that the disease is on the upswing, Agence France-Presse (AFP) reported today. And *China Daily* said fears are growing of uncontained spread of flu in China's vast interior, with government efforts focusing on getting equipment and resources to rural provinces in advance of the mass exodus to the countryside to celebrate Lunar New Year next month. [[Jan 4 AFP article](#)]
- [JAN 04] [France to sell 89 million vaccine doses](#)  
The French government is offering a vast amount of unused H1N1 flu vaccine for sale to other countries and may have found buyers in the Middle East, AFP reported. Of the 94 million doses bought to inoculate each resident two times, only about 5 million were used. Qatar and Egypt, and also Mexico and Ukraine, may be buyers, France's health ministry said. The country has experienced 198 deaths from the flu. [[Jan 5 AFP story](#)]
- [JAN 04] [Thailand admits, learns from H1N1 errors](#)  
Thailand's health ministry says its actions during the H1N1 pandemic confused people and brought mistrust of the organization, according to *The Nation*. Among its errors were unclear early messages about the virulence of H1N1, delays in reporting the first death, use of ineffective thermal scanners at airports, mistakenly encouraging people to be tested if they had symptoms, failure to warn high-risk groups of the danger, and misdiagnosis. [[Jan 2 The Nation article](#)]
- [JAN 04] [Two Chinese deaths not due to vaccine](#)  
Two unidentified people who died after being inoculated against H1N1 influenza did not die of vaccine reactions, the Chinese Ministry of Health said today in a report carried by Xinhua. Almost 50 million people have been vaccinated with a vaccine made in China, and about 1 per million has experienced a reaction, but these two deaths were not due to adverse events, the ministry said. [[Jan 4 China Daily report](#)]
- [JAN 04] [Rapid H1N1 diagnostic test gets EUA](#)  
Cepheid's Xpert Flu A Panel, which can identify pandemic H1N1 influenza in less than an hour, was given Emergency Use Authorization (EUA) status by the US Food and Drug Administration today. The test runs on the company's GeneXpert System,

and the EUA will allow its use in laboratories certified to perform "moderate complexity" testing, which includes hospital labs. The EUA is expected to expire Apr 26. [[Jan 4 Cepheid press release](#)]

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

## Health Protection Agency (UK)

[JAN 08] [Weekly Pandemic Flu Media Update](#)

- Most indicators show that flu activity is continuing to decrease across the UK. Some caution must be exercised, however, as the indicators may be influenced by the holiday period.
- The consultation rate for flu-like illness in England from the Royal College of General Practitioners (RCGP) scheme has decreased to 11.2 per 100,000 in week 53 compared to 12.7 in week 52. This is below the English baseline threshold of 30/100,000.
- With GP consultations for flu-like illness now below the usual seasonal baseline, the trend estimates previously produced on a weekly basis are no longer appropriate.

[JAN 08] [Weekly Epidemiological Update: 08 January 2010 \(Week 1\)](#)

[ARCHIVED] [Swine Influenza page](#)

## Department of Health (UK)

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

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

[JAN 05-08] [Daily update](#)

*The regular schedule for the ECDC 2009 influenza A (H1N1) pandemic newsletters will resume on Monday the 11<sup>th</sup> January, 2010.*

### JAN 08

- Episouth and EpiNorth updates included;
- Eurosurveillance updates included;
- Selected scientific articles reviewed;
- A total of 2 078 fatal cases in Europe and EFTA countries and 11 685 in the rest of the world have been reported up to date.

### JAN 07

- The Council of EU recommendations on seasonal influenza vaccination now published;
- EMA pharmacovigilance update published;
- A total of 2 039 fatal cases in Europe and EFTA countries and 11 624 in the rest of the world have been reported up to date.

## JAN 05

- US and Canada epidemiological updates included;
- A total of 1 952 fatal cases in Europe and EFTA countries and 11 372 in the rest of the world have been reported up to date;
- Scientific Advance on 2009 influenza A(H1N1) pandemic in indigenous and aboriginal populations of North America and Oceania, including Australia, New Zealand and the Pacific islands published;
- No newsletters will be produced on Wednesday the 6th of January (Epiphany) which is a Public Holiday in Sweden and also observed by ECDC.

## [JAN 08] [Weekly Influenza Surveillance Overview : Main surveillance developments in week 53/2009 \(28 December—03 January\)](#)

- This overview covers a period when consultation and reporting patterns in European countries were disrupted by national holidays. Therefore data has to be interpreted even more carefully than usual.
- All countries that reported this week experienced low to medium influenza intensity and stable activity or a decreasing trend.
- While the proportion of influenza-positive sentinel samples continues to decline, the 2009 influenza A(H1N1) pandemic virus still accounts for nearly 100% of all subtyped viruses in sentinel and SARI patients.
- The number of SARI cases, measured by week of onset, continues to decline.

**Sentinel surveillance of influenza like-illness (ILI)/ acute respiratory illness (ARI):** Estonia, France, Ireland, Romania and the UK (Scotland) reported medium intensity while all remaining countries reported low intensity. France, Slovenia and the UK (Wales) reported widespread activity. All countries reported a decreasing trend or stable activity.

**Virological surveillance:** Sentinel physicians collected 588 respiratory specimens, of which 145 (25%) were positive for influenza virus. This proportion has now decreased for the sixth consecutive week. The number of weekly respiratory syncytial virus (RSV) detections decreased for the first time since the beginning of this season; nevertheless, reporting may have been affected by the Christmas holidays.

**Aggregate numbers of 2009 pandemic influenza A(H1N1) deaths:** In week 53/2009, 10 countries reported 78 pandemic influenza-related deaths.

**Hospital surveillance of severe acute respiratory infection (SARI):** During week 53/2009, 133 SARI cases were reported, and of the 92 influenza viruses subtyped in week 53, all were the 2009 pandemic influenza virus

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

## European Union

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

## Pan-American Health Organization (PAHO)

- [JAN 05] [Regional Update. Pandemic \(H1N1\) 2009 \(Jan 5\)](#)
- In North America, acute respiratory disease activity continued to decrease and is lower than expected in some areas
  - In the Caribbean, all countries reported unchanged and decreasing trends in acute respiratory disease
  - Central America reported decreasing or unchanged trends in acute respiratory disease
  - South American countries reported mostly decreasing trends of acute respiratory disease
  - A median of 99.6% of subtyped influenza A viruses in North America were pandemic (H1N1) 2009
  - Since December 18th: 203 new confirmed deaths in 8 countries were reported; in total there have been 6,880 cumulative confirmed deaths

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

## Australia and New Zealand

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

- [DEC 28] [Australian Influenza Surveillance Summary Report No.32, 2009, Reporting Period: 12 December 2009 – 18 December 2009](#)  
As at 18 December 2009, there have been 37,537 confirmed cases of pandemic (H1N1) 2009 and 191 deaths reported in Australia.
- [DEC 23] [New Zealand Pandemic Influenza \(H1N1\) 09 Swine Flu - Update 166](#)  
**Note - This is the last update for 2009. Pandemic Influenza Updates will resume on Weds 13 January 2010**
- [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.*

- [JAN 08] [Pandemic \(H1N1\) 2009 - update 82](#)
- [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)

[JAN 08] Add H1N1 preparations to the start of the school year.

Trossman S. *Am Nurse*. 2009 Nov-Dec;41(6):10-1, 16. No abstract available.

[JAN 08] [Swine-origin H1N1 influenza A virus and dental practice: a critical review.](#)\*

Pitak-Arnop P, Schubert S, Dhanuthai K, Sappayatosok K, Bauer U, Ngamwannagul P, Liebert UG, Hemprich A. *Clin Oral Investig*. 2010 Jan 7. [Epub ahead of print]

[JAN 08] [Pandemic \(H1N1\) 2009 influenza.](#)\*

Patel M, Dennis A, Flutter C, Khan Z. *Br J Anaesth*. 2010 Jan 5. [Epub ahead of print]

[JAN 07] [Optimal Pandemic Influenza Vaccine Allocation Strategies for the Canadian Population.](#)

Ashleigh Tuite, David N. Fisman, Jeffrey C. Kwong, and Amy Greer. *PLoS Currents: Influenza* 2010. Published online January 7 2010.

[JAN 07] [Seasonal Influenza Vaccine Allocation in the Canadian Population during a Pandemic](#)

Ashleigh Tuite, David N. Fisman, Jeffrey C. Kwong, and Amy Greer. *PLoS Currents: Influenza* 2010. Published online January 7 2010.

[JAN 07] [A new decade, a new seasonal influenza: the Council of the European Union Recommendation on seasonal influenza vaccination.](#)

Nicoll A. Euro Surveill. 2010;15(1):pii=19458.

- [JAN 07] [A nosocomial outbreak of 2009 pandemic influenza A \(H1N1\) in a paediatric oncology ward in Italy, October – November 2009.](#)  
Chironna M, Germinario CA, Tafuri S, Santoro N, Prato R, Quarto M. Euro Surveill. 2010;15(1):pii=19454.
- [JAN 07] [When should we intervene to control the 2009 influenza A\(H1N1\) pandemic?](#)  
Sato H, Nakada H, Yamaguchi R, Imoto S, Miyano S, Kami M. Euro Surveill. 2010;15(1):pii=19455.
- [JAN 07] [Outbreak of 2009 pandemic influenza A\(H1N1\), Los Lagos, Chile, April-June 2009.](#)  
Chilean Task Force for study of Pandemic Influenza A (H1N1), Pedroni E, García M, Espínola V, Guerrero A, González C, Olea A, Calvo M, Martorell B, Winkler M, Carrasco MV, Vergara JA, Ulloa J, Carrazana AM, Mujica O, Villarreal JE, Labraña M, Vargas M, González P, Cáceres L, Zamorano CG, Momberg R, Muñoz G, Rocco J, Bosque V, Gallardo A, Elgueta J, Vega J. Euro Surveill. 2010;15(1):pii=19456.
- [JAN 07] [Severe Alcohol Hand Rub Overdose Inducing Coma, Watch After H1N1 Pandemic.](#)  
Henry-Lagarrigue M, Charbonnier M, Bruneel F, Legriel S, Troche G, Ben Mokhtar H, Yehia A, Guezennec P, Merrer J, Palette C, Bedos JP. Neurocrit Care. 2010 Jan 6. [Epub ahead of print]
- [JAN 06] [Lymphadenitis caused by H1N1 vaccination: Case report](#)  
Toy H, Karasoy D, Keser M. Vaccine 2010; *In Press, Uncorrected Proof*, Available online 6 January 2010
- [JAN 06] A caution about giving Tamiflu to children.  
[No authors listed]. Child Health Alert. 2009 Nov;27:4-5. No abstract available.
- [JAN 06] [Predicting the antigenic structure of the pandemic \(H1N1\) 2009 influenza virus hemagglutinin.](#)  
Igarashi M, Ito K, Yoshida R, Tomabechei D, Kida H, Takada A. PLoS One. 2010 Jan 1;5(1):e8553.
- [JAN 06] [The critically ill child with novel H1N1 influenza A: A case series.\\*](#)  
Lockman JL, Fischer WA, Perl TM, Valsamakis A, Nichols DG. Pediatr Crit Care Med. 2009 Dec 31. [Epub ahead of print]
- [JAN 06] [Pandemic influenza and pediatric intensive care\\*](#)  
Nap, Raoul E.; Andriessen, Maarten P. H. M.; Meessen, Nico E. L.; Albers, Marcel J. I. J.; van der Werf, Tjip S. Pediatric Critical Care Medicine. 29 December 2009. [Epub ahead of print]
- [JAN 06] [The 1918 influenza pandemic: Lessons for 2009 and the future.\\*](#)  
Taubenberger JK, Harvey HA, Memoli MJ. Crit Care Med. 2009 Dec 31. [Epub ahead of print]

- [JAN 06] [Novel influenza A\(H1N1\) in a pediatric health care facility in New York City during the first wave of the 2009 pandemic.\\*](#)  
Miroballi Y, Baird JS, Zackai S, Cannon JM, Messina M, Ravindranath T, Green R, Della-Latta P, Jenkins S, Greenwald BM, Furuya EY, Graham PL 3rd, Sonnett FM, Platt S, Delamora P, Saiman L. Arch Pediatr Adolesc Med. 2010 Jan;164(1):24-30.
- [JAN 06] [Clinical evaluation of rapid point-of-care testing for detection of novel influenza A \(H1N1\) virus in a population-based study in Spain\\*.](#)  
de la Tabla VO, Antequera P, Masiá M, Ros P, Martin C, Gazquez G, Buñuel F, Sánchez V, Robledano C, Gutiérrez F. Clin Microbiol Infect. 2009 Dec 29. [Epub ahead of print]
- [JAN 06] [Case records of the Massachusetts General Hospital. Case 40-2009. A 29-year-old man with Fever and respiratory failure.](#)  
Uyeki TM, Sharma A, Branda JA. N Engl J Med. 2009 Dec 24;361(26):2558-69.
- [JAN 06] NASN members are on front lines of fighting flu in the community: advice, steps to manage influenza in school.\*  
NASN. Nasnewsletter. 2009 Jan;24(1):21-4. No abstract available.
- [JAN 06] [Spread of infectious disease through clustered populations.](#)  
Miller JC. J R Soc Interface. 2009 Dec 6;6(41):1121-34.
- [JAN 06] [Statewide School-located Influenza Vaccination Program for Children 5–13 Years of Age, Hawaii, USA](#)  
P.V. Effler et al. Emerg Inf Dis. 2010. [Epub ahead of print]
- [JAN 05] [Streptococcus pneumoniae coinfection is correlated with the severity of H1N1 pandemic influenza.](#)  
Palacios G, Hornig M, Cisterna D, Savji N, Bussetti AV, Kapoor V, Hui J, Tokarz R, Briese T, Baumeister E, Lipkin WI. PLoS One. 2009 Dec 31;4(12):e8540.
- [JAN 05] [Electrical storm induced by H1N1 A influenza infection.\\*](#)  
Silva Marques J, Veiga A, Nóbrega J, Correia MJ, de Sousa J. Europace. 2010 Jan 1. [Epub ahead of print]
- [JAN 05] [Efficient simulation of the spatial transmission dynamics of influenza](#)  
Meng-Tsung Tsai et al. PLoS Currents: Influenza 2010. Published online 4 January 2010.
- [JAN 05] [Improving the Clinical Diagnosis of Influenza—a Comparative Analysis of New Influenza A \(H1N1\) Cases](#)  
Adrian K. Ong, Mark I. Chen, Li Lin, Adriana S. Tan, Ni Win Nwe, Timothy Barkham, Seow Yian Tay, Yee Sin Leo *PLoS One* 2009. Research Article, published 29 Dec 2009 | doi:10.1371/journal.pone.0008453
- [JAN 05] [Symptomatic infections less frequent with H1N1pdm than with seasonal strains](#)

Antoine FLAHAULT, Xavier de Lamballerie, Thomas Hanslik, and Nicolas Salez.  
PLoS Currents: Influenza 2010. Published online 27 December 2009.

- [JAN 05] [Quantifying the impact of community quarantine on SARS transmission in Ontario: estimation of secondary case count difference and number needed to quarantine.](#)  
Susan J Bondy, Margaret L Russell, Julie M L Lafleche, Elizabeth Rea. BMC Public Health 2009, 9:488 (24 December 2009)
- [JAN 05] [Calculating the potential for within-flight transmission of influenza A \(H1N1\)](#)  
Bradley G Wagner, Brian J Coburn, Sally Blower. BMC Medicine 2009, 7:81 (24 December 2009)
- [JAN 05] [Early detection of influenza outbreaks using the DC Department of Health's syndromic surveillance system](#)  
Beth Ann Griffin, Arvind K Jain, John Davies-Cole, Chevelle Glymph, Garret Lum, Samuel C Washington, Michael A Stoto. BMC Public Health 2009, 9:483 (22 December 2009)
- [JAN 05] [Combination strategies for pandemic influenza response - a systematic review of mathematical modeling studies](#)  
Vernon J Lee, David C Lye, Annelies Wilder-Smith. BMC Medicine 2009, 7:76 (10 December 2009)
- [JAN 04] [Preferential Lower Respiratory Tract Infection in Swine-Origin 2009 A\(H1N1\) Influenza.](#)  
Yeh E, Luo RF, Dyner L, Hong DK, Banaei N, Baron EJ, Pinsky BA. Clin Infect Dis. 2010 Jan 4. [Epub ahead of print]
- [JAN 04] [Acceptance of pandemic \(H1N1\) 2009 influenza vaccination by the Australian public.](#)  
Eastwood K, Durrheim DN, Jones A, Butler M. Med J Aust. 2010 Jan 4;192(1):33-6.
- [JAN 04] [Tamiflu still prudent for pandemic influenza, PHAC maintains.](#)  
Eggertson L.  
CMAJ. 2010 Jan 4. [Epub ahead of print] No abstract available.
- [JAN 04] [Letters: A/H1N1 flu pandemic: Fever as nature's engine?](#)  
BMJ 2009;339:b3874. Published 31 December 2009, doi:10.1136/bmj.b3874
- [JAN 04] Comment: [Defining the safety profile of pandemic influenza vaccines\\*](#)  
Pfeifer D, Alfonso C, Wood D. The Lancet 2010 Jan 2;375(9708): 9 – 11. doi:10.1016/S0140-6736(09)62133-4
- [JAN 04] Comment InFACT: a global critical care research response to H1N1\*  
The InFACT Global H1N1 Collaboration The Lancet 2010 Jan 2;375(9708): 11-13. doi:10.1016/S0140-6736(09)61792-X



- [JAN 04] Comment [Large trials confirm immunogenicity of H1N1 vaccines\\*](#)  
Kelly H, Barr I. The Lancet 2010 Jan 2;375(9708): 6-9. doi:10.1016/S0140-6736(09)62132-2
- [JAN 04] [Immune response after a single vaccination against 2009 influenza A H1N1 in USA: a preliminary report of two randomised controlled phase 2 trials\\*](#)  
Plennevaux E, Sheldon E, Blatter M, Reeves-Hoché MK, M. The Lancet 2010 Jan 2;375(9708): 41-48. doi:10.1016/S0140-6736(09)62026-2
- [JAN 04] [Safety and immunogenicity of a 2009 pandemic influenza A H1N1 vaccine when administered alone or simultaneously with the seasonal influenza vaccine for the 2009—10 influenza season: a multicentre, randomised controlled trial\\*](#)  
Vajo Z, Tamas F, Sinka L, Jankovics I. The Lancet 2010 Jan 2;375(9708):49-55. doi:10.1016/S0140-6736(09)62039-0
- [JAN 04] [Safety and immunogenicity of 2009 pandemic influenza A H1N1 vaccines in China: a multicentre, double-blind, randomised, placebo-controlled trial\\*](#)  
Liang XF, Wang HQ, Wang JZ, Fang HH, Wu J, Zhu FC, et al. The Lancet 2010 Jan 2;375(9708):56 – 66. doi:10.1016/S0140-6736(09)62003-1

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