

pH1N1 Flu Virus (Human Swine Influenza) Information Resources

Current as of December 21, 2009 at 4pm

Highlights

MOHLTC: [Ontario Influenza Bulletin Surveillance Week 49 \(December 06, 2009– December 12, 2009\)](#)

PHAC: [FluWatch: December 6, 2009 to December 12, 2009](#)

CDC: [UPDATED: Vaccine Information for Clinicians and Health Care Professionals](#)

[FluView: 2009-2010 Influenza Season Week 49 ending December 12, 2009](#)

Literature -----

Lancet ID: [Mandatory influenza immunisation of health-care workers*](#)

[H1N1 vaccination struggles against resistance and supply*](#)

JID: [Enhanced Memory Responses to Seasonal H1N1 Influenza Vaccination of the Skin with the Use of Vaccine-Coated Microneedles.*](#)

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[Clinton appoints pandemic flu ambassador](#)

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Updates by Jurisdiction

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[Ontario Ministry of Health and Long-Term Care \(MOHLTC\)](#)
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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

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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
- [ONGOING] "H1N1 and Pregnancy: Key Considerations for Vaccination and Management": Online learning program for health professionals
- To access the program:
www.mdBriefCase.com (for physicians)
www.rxBriefCase.com (for pharmacists)
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.
- [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 18] [Ontario Influenza Bulletin Surveillance Week 49 \(December 06, 2009–December 12, 2009\)](#)

For the surveillance period of December 6 to December 12, 2009 :

- Influenza activity in Ontario was lower compared to the previous week.
- Slightly 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 is similar to what is expected based on the average rate at this time of year for past seasons.
- No health units reported widespread influenza activity for the current reporting week. One health unit reported localized influenza activity and 15 health units reported sporadic influenza activity.
- There are 8,686 confirmed cases of H1N1 flu virus reported through the integrated Public Health System (iPHIS).

[DEC 15] [Flu vaccine opportunities expand : now available thru workplace clinics.](#)

[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 14] [Ontario Agency for Health Protection and Promotion Laboratory Pandemic H1N1 Surveillance Report December 7th](#)

[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.



[DEC 18] [FluWatch: December 6, 2009 to December 12, 2009](#)

- On week 49, the overall influenza activity continued to decline for the fourth consecutive week in Canada.
- The ILI consultation rate was below the expected range for this time of the year and only 6.6% of the specimens tested were positive for influenza. The Pandemic (H1N1) 2009 strain still accounted for nearly 100% of the positive influenza A subtyped specimens this week.
- The number of hospitalized cases (159 vs. 307), ICU admissions (40 vs. 83) and deaths (21 vs. 33) reported this week are about half of those reported last week. Among reporting provinces and territories (PTs) this week, hospitalized cases

occurred in only six provinces (BC, AB, SK, ON, QC & NS). Deaths reported this week were also from the same five provinces except MB (BC, AB, SK, MB, ON & QC).

- From August 30 to December 12, 2009, a total of 6,779 hospitalized cases including 1,081 (15.9%) cases admitted to an intensive care unit (ICU) as well as 313 (4.6%) deaths had been reported.

[DEC 18] [Vaccine Surveillance Report](#)

[DEC 17] [Holiday Health Tips](#)

[DEC 17] [Travellers and the H1N1 Flu Virus](#)

[DEC 17] [Deaths Associated with H1N1 flu virus in Canada](#)

- New deaths reported Dec 15 – Dec 17 11h00 EDT: 7
Cumulative total: 397

[DEC 15] [Guidance: Infection Prevention and Control Measures for Occupational Health Management for all Health Care Settings](#)

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

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



[DEC 21] [UPDATED: Vaccine Information for Clinicians and Health Care Professionals](#)

Supplies of the vaccines to protect against the 2009 H1N1 virus are increasing. Providers are encouraged to open up vaccination to anyone who wants it as soon as the needs of the initial prioritized populations have been met. Many places have already opened up vaccination to anyone who wants it and CDC is encouraging people who have been patiently waiting to receive the 2009 H1N1 vaccine to get vaccinated now. Influenza is unpredictable, but flu is expected to continue for months, caused by either 2009 H1N1 viruses or regular seasonal flu viruses. This vaccine is the best way to protect against the 2009 H1N1 pandemic virus



[DEC 18] [FluView: 2009-2010 Influenza Season Week 49 ending December 12, 2009](#)

During the week of December 6, 2009-December 12, 2009, flu activity declined in the United States as reported in FluView. The number of states reporting widespread flu activity decreased from 14 to 11.

[DEC 18] [UPDATE: Influenza and Pneumonia-Associated Hospitalizations and Deaths from August 30 to December 12, 2009](#)

[DEC 17] [NEW: Updated Interim Recommendations: Special Considerations for Clinicians Regarding 2009 H1N1 Influenza in Severely Immunosuppressed Patients](#)

[DEC 15] [Non-Safety-Related Voluntary Recall of Certain Lots of Sanofi Pasteur H1N1 Pediatric \(0.25 mL, for 6-35 month olds\) Vaccine in Pre-Filled Syringes: Questions & Answers](#)

- [DEC 14] [UPDATE: H1N1 Flu \(Swine Flu\): Resources for Pregnant Women](#)
- [DEC 14] [UPDATE: H1N1 Flu \(Swine Flu\): Resources for Obstetric Health Care Providers](#)
- [ARCHIVED] [Previous CDC documents and updates](#)

Other US Sources

- [DEC 16] [US Government Accountability Office \(GAO\): Monitoring and Assessing the Status of the National Pandemic Implementation Plan Needs Improvement](#)
- [DEC 15] Trust for America's Health: [Ready or not? Protecting the public's health from diseases, disasters, and bioterrorism, 2009](#)

Center for Infectious Disease Research and Policy



- [DEC 18] [WHO finds no change in pandemic severity pattern](#)
An early look at winter pandemic flu fatalities in the Southern and Northern Hemispheres suggests severity has not changed, the World Health Organization (WHO) said today. The virus is peaking or declining in many parts of Europe, except for the north, southeast, and parts of the Russian Federation. Activity is also rising in western and central Asia, as well as northern parts of India, Nepal, Sri Lanka, and the Maldives. Pandemic and seasonal strains are cocirculating in West Africa. [\[Dec 18 WHO update\]](#)



- [DEC 18] [Some countries eye returning surplus pandemic vaccine](#)
Swiss officials said today they plan to donate or sell 4.5 million surplus doses of pandemic vaccine, because uptake among the public has been low, Reuters reported. Germany and Spain have also said they want to return excess vaccine to manufacturers. Meanwhile, the Greek media reported today that government officials hope to cancel an order for 8 million vaccine doses. Immunization began in Greece a month ago, but the health ministry said citizens are skeptical and uptake has been low. [\[Dec 18 Reuters story\]](#)



- [DEC 18] [CDC spells out precautions for immunosuppressed patients](#)
The US Centers for Disease Control and Prevention (CDC) on Dec 16 outlined special considerations for severely immunosuppressed patients in its updated H1N1 guidance. It said cancer chemotherapy patients, for example, are at increased risk of complications, and those with acute respiratory symptoms should receive empiric treatment, even when no fever is present. Infection control measures should be taken before test results are known to avoid spread of any resistant strains that may develop. [\[Dec 16 CDC updated pandemic guidance for severely immunosuppressed patients\]](#)



- [DEC 18] [Flu triggers cancellation of St. Louis Rams practice](#)
The St. Louis Rams of the National Football League canceled their practice yesterday because several players were sick with suspected H1N1 flu, the

Associated Press reported. Coach Steve Spagnuolo said five or six players had flu-like illness and that others had reported symptoms the last few weeks. He called the cancellation "more of a precaution than anything" and said he expected the team would return to practice today. [[Dec 17 AP story](#)]



[DEC 18] [Clinton appoints pandemic flu ambassador](#)
Secretary of State Hillary Rodham Clinton announced yesterday the appointment of Dr Keri-Ann Jones as the US special representative on avian and pandemic influenza. She will lead US involvement in the pandemic flu arena and guide the department's response and preparedness. She was formerly the State Department's assistant secretary for oceans and international environmental and scientific affairs where she worked in international research and emerging infectious disease issues. [[Dec 17 US State Department press release](#)]

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

Health Protection Agency (UK)

[DEC 18] [New Advice for Health Professionals: Inpatient clinical management issues relating to oseltamivir-resistant pandemic \(H1N1\) 2009 influenza virus](#)

[DEC 18] [New advice for health professionals: Antiviral susceptibility testing of pandemic \(H1N1\) 2009 influenza viruses.](#)

[DEC 18] [New advice for health professionals: Pandemic \(H1N1\) 2009 influenza testing in the critical care setting.](#)

[DEC 18] [New advice for health professionals: Oseltamivir-resistant pandemic \(H1N1\) 2009 influenza case and cluster investigation.](#)

[DEC 17] [Weekly Pandemic Flu Media Update](#)

- The consultation rate for flu-like illness in England from the Royal College of General Practitioners (RCGP) scheme has decreased slightly to 29.7 per 100,000 in week 50 compared to 33.1 in week 49. This is just below the English baseline threshold of 30/100,000.
- The estimated cases self referring to the National Pandemic Flu Service have shown decreases in all areas of assessments, authorisations and collections. This is across all regions and most age groups.
- 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 9,000 new cases in England last week (range 5,000 to 19,000) which represents a small decrease from the previous week.
This estimate incorporates data from National Pandemic Flu Service and GP consultations.
- The HPA estimates a cumulative total number of cases of 780,000 (with a range 370,000 to 1,625,000) since the pandemic began.

[DEC 17] [Weekly Epidemiological Update: 17 December 2009 \(Week 51\)](#)

[ARCHIVED] [Swine Influenza page](#)

Department of Health (UK)

[DEC 16] [A \(H1N1\) swine flu influenza: phase two of the vaccination programme: children over 6 months and under 5 years: dosage schedule update](#)

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

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



[DEC 21] [Daily update – Pandemic H1N1 2009 \(Dec 21 2009\)](#)

- Modified schedules for ECDC Daily Update and WISO for Holiday period are announced.
- Weekly influenza surveillance overview (WISO) for period Dec 7th to 13th: most countries are now witnessing medium influenza intensity in the community with only a few reporting high to very high levels. In the majority of countries, activity is however still widespread. Nineteen countries reported decreasing rates of influenza-like illness or acute respiratory infection for at least the last two weeks
- A total of 1 652 fatal cases in Europe and EFTA countries and 10 388 in the rest of the world have been reported up to date.
- EpiSouth update: countries in the region still showing varying trends – some are reporting increasing activity while others report stable or decreasing trends



[DEC 21] [ECDC Executive Update Pandemic influenza \(H1N1\) 2009 Issue 23 Monday, 14 December 2009](#)

[DEC 18] [Weekly Influenza Surveillance Overview \(Dec 7-13\)](#)

[DEC 17] [ECDC Risk Assessment – Pandemic H1N1 – Update 7](#)

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

European Union

[DEC 10] [A note of the Health Security Committee - Early Warning Response System contact point audio-meeting, 9 December](#)

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

Pan-American Health Organization (PAHO)

- [DEC 16] [Regional Update. Pandemic \(H1N1\) 2009 \(Dec14\)](#)
- In North America, acute respiratory disease activity continued to decrease and is lower than expected in some areas
 - In the Caribbean, unchanged and decreasing trends in acute respiratory disease were reported
 - Central America reported decreasing or unchanged trends in acute respiratory disease
 - South America reported decreasing or unchanged trends of acute respiratory disease
 - A median of 99.8% of subtyped influenza A viruses in North America were pandemic (H1N1) 2009

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

Australia and New Zealand

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



- [DEC 21] [Australian Influenza Surveillance Summary Report No.30, 2009, Reporting Period: 05 December 2009 – 11 December 2009](#)
As at 11 December 2009, there had been 37,484 confirmed cases of pandemic (H1N1) 2009 and 191 deaths reported in Australia.

[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 21] [Transcript of the 17 December 2009 press briefing](#)
- [DEC 18] [Pandemic \(H1N1\) 2009 - update 79](#)
- [DEC 16] [New Zealand Pandemic Influenza \(H1N1\) 09 Swine Flu - Update 165](#)
- [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 21] [News : Swine flu has been "considerably less lethal than feared," says Donaldson](#)
Mashta O. BMJ 2009;339:b5568



[DEC 21] [News : WHO dispatches H1N1 vaccines to priority group of 35 poorer nations](#)
Zarocostas J. BMJ 2009;339:b5555



[DEC 21] [Acute necrotizing encephalopathy in a child with H1N1 influenza infection.*](#)
Lyon JB, Remigio C, Milligan T, Deline C. *Pediatr Radiol.* 2009 Dec 18. [Epub ahead of print] PMID: 20020117 [PubMed - as supplied by publisher]



[DEC 21] [Enhanced Memory Responses to Seasonal H1N1 Influenza Vaccination of the Skin with the Use of Vaccine-Coated Microneedles.*](#)
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[DEC 21] [Tissue and host tropism of influenza viruses: Importance of quantitative analysis.*](#)
Zhang H. *Sci China C Life Sci.* 2009 Dec;52(12):1101-10. Epub 2009 Dec 17. PMID: 20016966 [PubMed - in process]



[DEC 21] [Pandemic Influenza A \(H1N1\).*](#)
Sharon B, Schleiss MR. *Pediatr Res.* 2009 Dec;66(6):599. No abstract available. PMID: 20016415 [PubMed - in process]



[DEC 21] [Swine flu and antibiotics--authors' response.](#)
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[DEC 21] [H1N1 vaccination struggles against resistance and supply*](#)
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[DEC 18] [Is a Mass Immunization Program for Pandemic \(H1N1\) 2009 Good Value for Money? Early Evidence from the Canadian Experience.](#)
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[DEC 18] [Quantifying the risk of pandemic influenza in pregnancy and Indigenous people in Australia in 2009.*](#)
Kelly H, Mercer GN, Cheng AC.. Euro Surveill. 2009;14(50):pii=19441.

[DEC 18] [Enhanced Memory Responses to Seasonal H1N1 Influenza Vaccination of the Skin with the Use of Vaccine-Coated Microneedles.*](#)
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[DEC 18] [Absence of 2009 Pandemic H1N1 Influenza A Virus in Fresh Pork.](#)
Vincent AI et al. PLoS ONE> 2009. Published 18 December 2009, doi:10.1371/journal.pone.0008367.

[DEC 18] [The IFITM Proteins Mediate Cellular Resistance to Influenza A H1N1 Virus, West Nile Virus, and Dengue Virus*](#)
Abraham L. Brass AL et al. Cell. 2009. Published online 17 December 2009.

[DEC 18] [The Novel H1N1 Influenza *](#)
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[DEC 18] [Pandemic Influenza A \(H1N1\).*](#)
Sharon B, Schleiss MR. Pediatr Res. 2009 Dec;66(6):599. No abstract available.

[DEC 18] [Emergence of H5N1 Avian Influenza Viruses with Reduced Sensitivity to Neuraminidase Inhibitors and Novel Reassortants in Lao PDR.*](#)
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- [DEC 18] [H1N1 and institutions of higher education.](#)*
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- [DEC 18] [Lessons learned in implementing a 24/7 public health call center in response to H1N1 in the State of New Jersey.](#)*
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- [DEC 17] [Surveillance for outbreaks of influenza-like illness in the institutionalized elderly*](#)
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- [DEC 17] [Management of blood supplies during an influenza pandemic \(p \)](#)
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- [DEC 17] Pandemic influenza: is there a corporate duty to prepare?*
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- [DEC 17] [H1N1: Revealing the Collective Resolve of Medicine and Public Health.*](#)
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- [DEC 17] [Mitigating Absenteeism in Hospital Workers During a Pandemic*.](#)
Garrett AL, Park YS, Redlener I. Disaster Med Public Health Prep. 2009 Dec;3(Supplement 2 Suppl):S141-S147.
- [DEC 17] [Novel Influenza A \(H1N1\) Outbreak On Board a US Navy Vessel.*](#)
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- [DEC 17] [Spring 2009 H1N1 Influenza Outbreak in King County, Washington.*](#)
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- [DEC 17] [CDC's Countermeasure and Response Administration System for Monitoring H1N1 Vaccine Doses Administered.*](#)
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- [DEC 16] [Th1 and Th17 hypercytokinemia as early host response signature in severe pandemic influenza](#)
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- [DEC 16] [Effectiveness and Cost-Effectiveness of Vaccination Against Pandemic Influenza \(H1N1\) 2009*](#)
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- [DEC 16] [Efficacy of inactivated split-virus influenza vaccine against culture-confirmed influenza in healthy adults: a prospective, randomized, placebo-controlled trial.*](#)
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- [DEC 16] ["Listen to the people": public deliberation about social distancing measures in a pandemic.*](#)
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