

pH1N1 Flu Virus (Human Swine Influenza) Information Resources

Current as of November 2, 2009 at 4pm

Highlights

MOHLTC: [Ontario Influenza Bulletin: Surveillance Week 42 \(Oct 18 – Oct 24\)](#)

PHAC: [Weekly Distribution of the H1N1 Flu Vaccine](#) [by province/territory]

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[Pandemic \(H1N1\) 2009 Influenza - case investigation, management and treatment](#)

WHO: [Vaccines for pandemic \(H1N1\) 2009](#)

Literature -----

Lancet [Importance of background rates of disease in assessment of vaccine safety during mass immunisation with pandemic H1N1 influenza vaccines](#) *

Science [The Transmissibility and Control of Pandemic Influenza A \(H1N1\) Virus](#)*

RCC: [Lung Pathology in Fatal Novel Human Influenza A \(H1N1\) Infection.](#)*

News -----

CIDRAP: [WHO experts favor single-dose H1N1 vaccine regimen](#)

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[Ukraine imposes social distancing steps amid flu surge](#)

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

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United States

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

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

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Europe

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

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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

Archived

- [OCT 26] [Peramivir and other Antiviral Treatment Options for Treatment of Influenza in Hospitalized Patients for the 2009-2010 Season](#)
(Peramivir is an Intravenous Influenza Antiviral authorized for use by the US Food and Drug Administration (FDA), subject to the Emergency Use Authorization (EUA) terms and conditions)
- [ARCHIVED] [COCA conference calls](#)
- [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 30] [Ontario Influenza Bulletin: Surveillance Week 42 \(Oct 18 – Oct 24\)](#)
- Influenza activity in Ontario was higher compared to the previous week.
 - More patients reporting influenza-like symptoms consulted sentinel physicians this week than the previous week.
 - The rate of influenza-like illness (ILI) in patients seen by sentinel physicians continues to be above the average rate expected at this time of year.
 - Five health units reported widespread influenza activity for the current reporting week. Ten health units reported localized influenza activity and 16 health units reported sporadic influenza activity.
 - There are 4,814 confirmed cases of H1N1 flu virus reported through the integrated Public Health System (iPHIS).
- As of October 28:**
- 30 deaths have been reported among confirmed H1N1 cases.
 - 68 people who have the H1N1 flu virus were in hospital as of 8:30 a.m. on October 28, a number of whom have underlying medical conditions. 475 other people have been hospitalized and have since been discharged.
 - More hospitalized cases were reported this week compared to last week. Two new deaths among cases were reported this week.

- [OCT 29] [Influenza Self-Assessment Tool](#)

[OCT 23] [Ontario Sends First Shipment Of 700,000 Doses Of H1N1 Vaccine To Health Units](#)

Ontario has shipped 700,000 doses of H1N1 flu vaccine to the province's public health units since October 21 in order to allow immunization clinics to begin next week.

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

- Emergency Departments [Guidance Document](#)
- Ambulatory Care Settings [Guidance Document](#)
- Long-Term Care Settings [Guidance Document](#)
- Pharmacies [Guidance Document](#)
- Shelters [Guidance Document](#)
- Homecare [Guidance Document](#)

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

Important Health Notices

[OCT 22] [pH1N1 – Access to Supplies & Equipment](#)

[OCT 14] [H1N1 Update, October 14](#)

Ontario Agency for Health Protection and Promotion (OAHP)

[OCT 30] [Laboratory Surveillance Update - October 26, 2009](#)

[OCT 28] [Weekly Synthesis of Surveillance Information, Literature & Government Updates \(Week ending Oct 23rd, 2009\)](#)

[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.



[NOV 02] [Weekly Distribution of the H1N1 Flu Vaccine](#)

The Government of Canada is overseeing the distribution of the H1N1 flu vaccine from the vaccine manufacturer to the provinces and territories. The vaccine is being distributed to the provinces and territories on a per capita basis, as agreed to by the Chief Medical Officers of Health. The Territories have been supplied in full from initial shipments to minimize the number of shipments, given the logistical challenges of shipping to the North.

The following table lists the number of doses of H1N1 flu vaccine distributed per week to each province/territory, and the forecasted the number of doses to be distributed in the coming week.

For the full table, including all provinces and territories, please follow the link above

Weekly Distribution of the H1N1 Flu Vaccine					
1. Dose distribution as of end of Oct. 31 (3 weeks of distribution)					
Delivered to Date					Forecast
Week 1	Week 2	Week 3			Week 4
Oct. 12 - 18	Oct. 19 - 25	Oct 26 - Nov 1			Nov 2 - Nov 8
FPT	Adj. Doses	Adj. Doses	Adj. Doses	Total Doses Distributed ¹	Adj. / Unadj. Doses
Quebec	431,000	431,000	469,000	1,331,000	113,000 / 52,000
Ontario	722,000	722,000	785,000	2,229,000	189,500 / 86,800
Alberta	201,000	201,000	220,000	622,000	52,500 / 28,600
BC	232,500	232,500	353,000	818,000	64,500 / 25,000
TOTAL:	1,923,500	1,839,500	2,100,000	5,863,000	486,000 / 224,900



[OCT 30] [Guidance for Clinical Management of Patients with Influenza-Like-Illness \(ILI\) in the context of pandemic \(H1N1\) 2009 in Remote and Isolated Communities](#)



[OCT 30] [Pregnant Women – Which H1N1 Flu Vaccine is Right For You?](#)

[OCT 30] [Recommendations for pH1N1 Vaccine in Pregnancy](#)

[OCT 28] [Prevention and management of cases of influenza-like-illness \(ILI\), including the pandemic \(H1N1\) 2009 influenza virus, on conveyances including airplanes, trains, ferries and buses](#)

[OCT 28] [H1N1 Flu Virus: Government of Canada Provides Travel Guidance](#)

[OCT 28] [Deaths Associated with H1N1 flu virus in Canada](#) [as of Oct 27]

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

[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.



- [NOV 02] [2009 H1N1 Influenza Vaccine Supply Status](#)
- [OCT 30] [Peramivir IV Questions and Answers for Health Care Providers](#)
- [OCT 30] [U.S. Influenza and Pneumonia-Associated Hospitalizations and Deaths from August 30 to October 24, 2009](#)

During the week of October 18-24, 2009, influenza activity continued to increase in the United States as reported in FluView. Flu activity is now widespread. Nationwide, visits to doctors for influenza-like-illness are increasing steeply and are now higher than what is seen at the peak of many regular flu seasons. In addition, flu-related hospitalizations and deaths continue to go up nation-wide and are above what is expected for this time of year.
- [OCT 28] [Questions and Answers: EID article "Estimates of the Prevalence of Pandemic \(H1N1\) 2009, United States, April-July 2009"](#)
- [OCT 29] [Update: 2009 H1N1 Flu: Free Resources](#)
- [OCT 27] [Clinicians Considering the Use of Intravenous Peramivir](#)
- [OCT 27] [ACIP Presentation Slides: Special July 2009 Meeting](#)
- [OCT 27] [Influenza A \(H1N1\) 2009 Monovalent Vaccine Dosage Chart](#)
- [ARCHIVED] [Previous CDC documents and updates](#)

Other US Sources



- [OCT 30] [H1N1 documents on CMS \[Centers for Medicare and Medicaid Services\]](#)
- [OCT 28] [Questions and Answers about Children and Tamiflu](#)
- [OCT 27] [Secretary Sebelius Issues 1135 Waiver for H1N1 Flu](#)
- [OCT 27] [FDA Approves New IV Drug for Treatment of Seriously Ill Flu Patients](#)
- [OCT 27] GAO: [Influenza Pandemic: Key Securities Market Participants Are Making Progress, but Agencies Could Do More to Address Potential Internet Congestion and Encourage Readiness](#)
- [OCT 27] AMA/AAFP/ACOG/CDC: [Letter to professionals re pregnancy and H1N1](#)

Center for Infectious Disease Research and Policy



[OCT 30]

[WHO experts favor single-dose H1N1 vaccine regimen](#)

Lisa Schnirring (CIDRAP News) – An expert committee that advises the World Health Organization (WHO) today updated its guidance on pandemic H1N1 vaccines, recommending a single dose for most age-groups and advising that any of the forms are safe for pregnant women.



[OCT 30]

[Spreading H1N1 virus claims 19 more US children](#)

Robert Roos (CIDRAP News) – The H1N1 influenza virus is now widespread in all but two states and has claimed the lives of 114 children, 19 more than the toll a week ago, the Centers for Disease Control and Prevention (CDC) reported in an update today.



[OCT 30]

[Ukraine imposes social distancing steps amid flu surge](#)

Lisa Schnirring (CIDRAP News) – Ukrainian officials today shuttered schools and banned public meeting for the next 3 weeks in the wake of a spike in pandemic flu and the country's first H1N1 deaths, which have sparked speculation that the disease has become worse in some patients or that another pathogen is circulating.



[OCT 30]

[NY declaration expands vaccinator pool](#)

New York governor David A. Paterson yesterday declared a state emergency to permit more health workers to give H1N1 flu vaccinations. Normally only physicians, nurses, and nurse practitioners can do so; the declaration will enable physician assistants, dentists, some dental hygienists, and emergency personnel to participate, the state said in a news release. The action--requested by local governments--also authorizes school-based health centers to vaccinate adults and children.



[OCT 30]

[Do seasonal flu shots open kids more to pandemic flu?](#)

Dutch scientists suggest that vaccinating children against seasonal flu may make them more vulnerable to pandemic flu strains, according to a Canadian Press report. In a journal article, the scientists wrote that shielding children from the need to generate immunity to actual seasonal viruses might leave them more vulnerable to pandemic strains. But other experts, while not necessarily agreeing, say it's better to protect children from an annual threat than one they may face every few decades.



[OCT 30]

[WHO: flu rates up in Europe, parts of Asia](#)

Though pandemic activity continues to intensify in North America, several European countries are reporting high rates of flu-like illness and pandemic virus detections, including Iceland, Ireland, the United Kingdom, Belgium, and the Netherlands, the World Health Organization (WHO) reported today. Many other countries in Europe and western and central Asia are reporting early flu transmission. Flu activity is up sharply in Japan. At least 5,712 deaths have been reported, up 713 from last week.



[OCT 30]

[Swiss officials restrict GSK vaccine in some](#)

Swiss regulators today restricted the use of an adjuvanted pandemic H1N1 vaccine made by GlaxoSmithKline in pregnant women, children, and people older than 60, Agence France-Presse (AFP) reported. The agency held back its authorization for the groups because it has little data on the vaccine's use in children and no data for pregnant women. It endorsed one of two pandemic vaccines made by Novartis and is still examining the company's cell-based pandemic vaccine.

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

Health Protection Agency (UK)



[NOV 02] [Position of HPA on the need for ethical committee approval of field investigation and control of Pandemic \(H1N1\) 2009 influenza](#)



[OCT 30] [Pandemic \(H1N1\) 2009 Influenza - case investigation, management and treatment](#)



[OCT 30] [Swine flu: schools and educational settings](#)

[OCT 29] [Directed Enhanced Services - Pandemic Influenza \(H1N1\) Vaccination Scheme](#)

The Secretary of State Directions requiring Primary Care Trusts to enter into arrangements to vaccinate patients identified in the Chief Medical Officer's letter of 13 August 2009 come into force on 30 October 2009.

[OCT 28] [Clinical professionals brief on swine flu vaccination](#)

[OCT 28] [Health and social care workers and pandemic influenza: information for staff who are pregnant or in other at-risk groups](#)

[OCT 28] [Stock Management System training manuals](#)

The Stock Management System (SMS) provides the DH and the NHS Users with an effective tool to manage the distribution of antivirals to PCTs and collection points in the event of a pandemic.

[OCT 26] [Prescribing guidance for antiviral drugs](#) - updated

[OCT 26] [Schools guidance for children with special needs](#)

[OCT 26] [Paediatric practice note for the management of critically ill children with pandemic \(H1N1\) 2009 Influenza](#) \

[ARCHIVED] [Swine Influenza page](#)

Department of Health (UK)

[OCT 30] [Weekly pandemic flu media update](#)

KEY POINTS

- The flu-like illness rate in England from the Royal College of General Practitioners (RCGP) scheme increased to 42.8 per 100,000 in week 43 compared to 39.1 in week 42. An increase was seen in all age groups.
- The main burden of flu-like illness nationally is in the 1-4 and 5-14 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. The largest

increase (49%) in week 43, compared with week 42, was seen in the 1-4 year olds.

- Interpretation of data to produce estimates on the number of new cases continues to be subject to a considerable amount of uncertainty. HPA modelling gives an estimate of 78,000 new cases in England last week (range 39,000 to 169,000). This represents a 56% increase on 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 521,000 since the pandemic began.

[OCT 29] [29 October 2009 - weekly swine flu update](#)

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

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



[NOV 02] [Daily update – Pandemic H1N1 2009 \(02/11/2009\)](#)

- WHO SAGE committee advises on pandemic vaccines October 30th, 2009
- Outbreaks of Severe Acute Respiratory Infection in the Ukraine – late October
- The latest report from the European Influenza Surveillance network for week 43/2009 shows the steadily increasing appearance of the pandemic in EU-EEA countries
- Total of 317 fatal cases in Europe and EFTA countries and 6 153 in the rest of the world have been reported up to date.



[OCT 30] [ECDC Weekly Executive Update - Pandemic H1N1 2009](#)

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

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

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

European Union

[OCT 26] [Finland Faces First Swine Flu Death](#)

[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.



[NOV 01] [Pandemic \(H1N1\) 2009, Ukraine](#)



- [OCT 30] [Vaccines for pandemic \(H1N1\) 2009](#)
- [Safety of pandemic \(H1N1\) 2009 vaccines](#)
 - [Use of the pandemic \(H1N1\) 2009 vaccines](#)
 - [Production and availability of pandemic \(H1N1\) 2009 vaccines](#)

[OCT 30] [Pandemic \(H1N1\) 2009 - update 72](#)

[OCT 30] [Experts advise WHO on pandemic vaccine policies and strategies
Pandemic \(H1N1\) 2009 briefing note 14](#)

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

[ARCHIVED] [Older WHO Updates](#)

Pan-American Health Organization (PAHO)

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

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

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

Australia and New Zealand

[OCT 28] [New Zealand Pandemic Influenza \(H1N1\) 09 Swine Flu - Update 157](#)

- Next year's seasonal influenza vaccine will contain the pandemic influenza strain and will be available in New Zealand in autumn.
- Immunisation from pandemic influenza will be available as part of the seasonal influenza programme.

- For some people it will be free of charge - the Government subsidises seasonal influenza immunisation for people aged 65 years or over and people aged 6 months to 64 years with a range of chronic conditions.

[OCT 26] [Australia National H1N1 Influenza 09 Update](#)

- At noon today Australia has 37,039 confirmed cases of pandemic (H1N1) 2009
- The number of deaths associated with pandemic (H1N1) 2009 continues to increase. As of 26 October, 186 people have died. Of these deaths, four were pregnant women and 24 (12.9%) were Indigenous.
- The total number of hospitalisations in Australia since pandemic (H1N1) 2009 is identified at 4,904

[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 30] [Importance of background rates of disease in assessment of vaccine safety during mass immunisation with pandemic H1N1 influenza vaccines](#) *

Black S, Eskola J, Siegrist CA, Halsey N, MacDonald N, Law B, Miller E, et al. The Lancet, Early Online Publication, 31 October 2009. doi:10.1016/S0140-6736(09)61877-8 Cite or Link Using DOI



[OCT 30] [The Transmissibility and Control of Pandemic Influenza A \(H1N1\) Virus](#) *

Yang Y, Sugimoto JD, Halloran ME, Basta NE, Chao DL, Laura Matrajt L, et al. Originally published in *Science Express* on 10 September 2009. *Science* 30 October 2009: Vol. 326. no. 5953, pp. 729 – 733. DOI: 10.1126/science.1177373



[OCT 30] [Lung Pathology in Fatal Novel Human Influenza A \(H1N1\) Infection.](#) *

Mauad T, Hajjar LA, Callegari GD, da Silva LF, Schout D, Galas FR, et al. *Am J Respir Crit Care Med.* 2009 Oct 29. [Epub ahead of print]



[OCT 30] [Rapid Development of an Efficacious Swine Vaccine for Novel H1N1](#)

Vander Veen R, Kamrud K, Mogler M, Loynachan AT, et al. *PLOS.*



- [OCT 30] [Antiviral usage for H1N1 treatment: pros, cons and an argument for broader prescribing guidelines in the United States](#)
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- [OCT 30] [Update on emerging infections: news from the Centers for Disease Control and Prevention. Hospitalized patients with novel influenza A \(H1N1\) virus infection--California, April-May, 2009.](#)
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- [OCT 30] [Introduction of a Novel Swine-Origin Influenza A \(H1N1\) Virus into Milwaukee, Wisconsin in 2009.](#)
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- [OCT 30] [Generation of live attenuated novel influenza A/California/7/09 \(H1N1\) vaccines with high yield in embryonated chicken eggs.](#)
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- [OCT 30] [The first Swedish H1N2 swine influenza virus isolate represents an uncommon reassortant.](#)
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- [OCT 30] [Coming soon to an ICU near you: severe pandemic influenza in ICU patients in Spain.](#)
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- [OCT 29] [Reassortment between Amantadine-Resistant and -Sensitive H1N1 Influenza A Viruses Generated an Amantadine-Sensitive Virus during the 2007–2008 Season*](#)
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- [OCT 29] [Estimates of the Prevalence of Pandemic \(H1N1\) 2009, United States, April–July 2009](#)
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- [OCT 29] Letter: [Preexisting Immunity to Pandemic \(H1N1\) 2009](#)
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- [OCT 29] Letter: [Antiviral Drugs for Treatment of Patients Infected with Pandemic \(H1N1\) 2009 Virus](#)
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- [OCT 29] [ASID \(HICSIG\) position statement: infection control guidelines for patients with influenza-like illnesses, including pandemic \(H1N1\) influenza 2009, in Australian health care facilities](#)
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- [OCT 28] [Evaluation of serological trials submitted for annual re-licensure of influenza vaccines to regulatory authorities between 1992 and 2002*](#)
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- [OCT 28] [Temperature sensitivity on growth and/or replication of H1N1, H1N2 and H3N2 influenza A viruses isolated from pigs and birds in mammalian cells*](#)
Pascale M et al. Veterinary Microbiology. In Press, Accepted Manuscript. Available online 28 October 2009.
- [OCT 28] [Mechanisms and functional implications of the degradation of host RNA polymerase II in influenza virus infected cells*](#)
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- [OCT 28] [Zanamivir \(Relenza\) Must Not Be Given by Nebulization](#)
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- [OCT 27] [A Report on the Association of Influenza B virus with Respiratory Tract Infection of Hospitalized Children in Saudi Arabia](#)
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- [OCT 28] [Generation of live attenuated novel influenza A/California/7/09 \(H1N1\) vaccines with high yield in embryonated chicken eggs](#)
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- [OCT 28] [Rapid Influenza Diagnostic test during the Outbreak of The Novel Influenza A/H1N1 2009 in Thailand: An Experience with Better Test Performance in Resource Limited Setting*](#)
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- [OCT 28] [Infection prevention in points of dispensing*](#)
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- [OCT 28] [Neurologic Complications Associated With Novel Influenza A \(H1N1\) Virus Infection in Children—Dallas, Texas, May 2009](#)
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- [OCT 28] [Acceptability of A/H1N1 vaccination during pandemic phase of influenza A/H1N1 in Hong Kong: population based cross sectional survey](#)
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- [OCT 28] [A design fault in New Zealand's health research funding system exposed by pandemic influenza.*](#)
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- [OCT 28] [Evaluation of Sensitivity and Specificity of Rapid Influenza Diagnostic Tests for Novel Swine-Origin Influenza A \(H1N1\) Virus.*](#)
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- [OCT 28] [The Situation Room: A Step by Step Procedure toward Pandemic Influenza Preparedness.*](#)
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- [OCT 28] [A case of Chronic Fatigue Syndrome following H1N1 influenza \(swine influenza\).*](#)
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- [OCT 27] [The Novel 2009 H1N1 Influenza Virus Pandemic: Unique Considerations for Programs in Cardiothoracic Transplantation.](#)
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- [OCT 27] [Pregnancy and H1N1 infection*.](#)
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