

pH1N1 Flu Virus (Human Swine Influenza) Information Resources

Current as of November 23, 2009 at 4pm

Highlights

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

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

APHA: [APHA asks Obama to support CDC's N-95 stance](#)

Literature -----

PLoS: [The Early Transmission Dynamics of H1N1pdm Influenza in the United Kingdom](#)

PLoS: [H1N1 vaccination and adults with underlying health conditions in the US](#)

PrehospDisMed: [The Novel Influenza A H1N1 Epidemic of Spring 2009: National After Action Workshop on a Federal Public Health Emergency: 21–22 September 2009 Torrance, California](#)

EpiInfect: [Pandemic \(H1N1\) 2009 virus outbreak in a school in London, April-May 2009: an observational study.*](#)

JAmGerSoc: [Top Ten List of Long-Term Care Facility Preparations for the Upcoming Influenza Season.*](#)

News -----

Reuters: [Norway finds potentially significant H1N1 mutation in flu victims](#)

Reuters: [China responds to underreporting claim](#)

NPR: [Health officials investigating 2 unrelated clusters of hospital patients infected with oseltamivir-resistant H1N1](#)

EMA: [EU regulators OK single vaccine dose for most](#)

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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 \(WHO\)](#)
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[Australia and New Zealand](#)

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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
- [NOV 30] Webcast: [Planning for a Pandemic - Can History Inform Action?](#)
Date: Monday, November 30, 2009, Monday at 13:00 (EST)
Reserve your Webinar seat now at:
<https://www2.gotomeeting.com/register/941279587>

Archived

- [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)



- [NOV 23] [Ontario Influenza Bulletin: Surveillance Week 45](#)
For the surveillance period of November 8 to November 14, 2009 :
- Influenza activity in Ontario is lower compared to the previous week.
 - Fewer patients reporting influenza-like symptoms consulted sentinel physicians this week than the previous week.
 - However, 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.
 - The ILI consultation rate is still more than double what Ontario has seen at the peak of past regular flu seasons.
 - Eleven health units reported widespread influenza activity for the current reporting week. Thirteen health units reported localized influenza activity and 10 health units reported sporadic influenza activity.
 - There are 7,793 confirmed cases of H1N1 flu virus reported through the integrated Public Health System (iPHIS).



- [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 20] [H1N1 News Conference Video – November 18th](#)

[NOV 18] [Immunization Program Open To All Ontarians On November 19](#)

- [NOV 16] Professional guidelines:
- [Ambulatory care settings](#) (Updated)
 - [Emergency departments](#) (Updated)
 - [Pre-hospital care settings](#)
 - [Long-term care settings](#) (Updated)
 - [Pharmacists and Pharmacies](#) (Updated)

[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](#)

[Information destinée aux professionnels de la santé - MISE À JOUR SUR LA GRIPPE pH1N1.](#)

Ontario Agency for Health Protection and Promotion (OAHPP)

[NOV 18] [Weekly Synthesis of Surveillance Information, Literature & Government Updates \(Week ending Nov 13, 2009\)](#)

- [NOV 16] [Ontario Agency for Health Protection and Promotion Laboratory Pandemic H1N1 Surveillance Report](#)
- [NOV 10] [LABstract: Testing for Pandemic Influenza A H1N1 \(2009\) \(pH1N1\) - Update](#)
- [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 23] [Guidance Document on the Use of Pandemic Influenza A \(H1N1\) 2009 Inactivated Monovalent Vaccine \(Updated\)](#)



- [NOV 22] [Weekly Distribution of the H1N1 Flu Vaccine](#)

- [NOV 19] [Public Health Guidance for the Prevention and Management of Influenza-like Illness \(ILI\), Including the Pandemic \(H1N1\) 2009 Influenza Virus, Related to Communal Living Settings](#)

- [NOV 19] [Deaths Associated with H1N1 flu virus in Canada](#) (as of Nov 19)
- New deaths reported Nov 17 – 19: 52
 - Cumulative total: 250

- [NOV 18] [Backgrounder: Use of Unadjuvanted H1N1 Flu Vaccine](#)

- [NOV 17] [Weekly Vaccine Surveillance Report](#)

- [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 23] [Quick Facts for the Public on Antiviral Treatments for 2009 H1N1](#)



- [NOV 23] [2009 H1N1 Influenza Vaccine - Dose Spacing for Children 6 Months through 9 Years of Age](#)



- [NOV 23] [Chart: 2009 H1N1 Influenza Vaccine: Dose Spacing and Administration with Seasonal Influenza and Other Vaccines](#)



[NOV 23] [2009 H1N1 Influenza Vaccine - Administration with Seasonal Influenza and Other Vaccines](#)

[NOV 20] [2009 H1N1 Flu: International Situation Update](#)

[NOV 20] 2009 H1N1 Vaccine - Dose Spacing and Administration with Other Vaccines

- [Dose Spacing Table](#)
- [Administration with Other Vaccines Table](#)
- [Dose Spacing and Administration with Other Vaccines Table](#)

[NOV 20] [H1N1 Monovalent Vaccine Return Policy](#)

[NOV 20] [New: Graphical Representations of a Generic Influenza Virus](#)

These pictures provide a 3D graphical representation of the biology and structure of a generic influenza virus, and are not specific to the 2009 H1N1 virus.

[NOV 20] [U.S. Influenza and Pneumonia-Associated Hospitalizations and Deaths from August 30 to November 14, 2009](#)

During the week of November 8-14, 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.

Cases Defined by	Hospitalizations	Deaths
Influenza Laboratory-Tests**	26,315	1,049

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

Other US Sources



[NOV 23] Letter: [APHA asks Obama to support CDC's N-95 stance](#)

In a letter yesterday, the American Public Health Association (APHA) asked President Obama to resist efforts to change current CDC guidance on respiratory protection for healthcare workers caring for H1N1 patients, which emphasizes face-fitting N-95 respirators over surgical masks.

[NOV 16] NIAID: [Immune System of Healthy Adults May Be Better Prepared Than Expected to Fight 2009 H1N1 Influenza Virus](#)

[NOV 13] U.S. DHSS: [Disabilities and the Flu](#)

Center for Infectious Disease Research and Policy



[NOV 20] [Seasonal, H1N1 strains circulating in Oklahoma](#)
Oklahoma has had its first seasonal flu-related death of the season, showing that the seasonal and pandemic strains are both circulating in the state, according to a report today by *The Oklahoman* newspaper. State epidemiologist Dr. Kristy Bradley said five more pandemic flu deaths were reported in the state in the past week, but flu activity is slowing, with fewer flu-related hospitalizations and doctor visits. [[Nov 20 Oklahoman report](#)]



[NOV 20] [Glaxo recalls vaccine lot over allergic reactions](#)
GlaxoSmithKline has withdrawn a 170,000-dose lot of H1N1 vaccine distributed in Canada because of an unusual number of allergic reactions, CTV News reported today. Health officials reported six anaphylactic reactions to doses from the lot, versus an expected rate of only one or two, the story said. The company asked provinces to set aside the doses so it can test them. Manitoba's chief medical officer of health said the reactions were brief and all the patients recovered. [[Nov 20 CTV report](#)]



[NOV 20] [China responds to underreporting claim](#)
After one of China's top flu researchers, Zhong Nanshan, said the country might be underreporting its pandemic flu deaths, the Chinese health ministry said today that anyone concealing H1N1 fatalities would be severely punished, Reuters reported. Earlier this month the ministry adopted a new policy that deaths in patients with confirmed H1N1 would be attributed to the virus, even if they had other conditions. Zhong had said some facilities weren't testing for H1N1 in severe pneumonia cases. [[Nov 20 Reuters story](#)]



[NOV 20] [EU regulators OK single vaccine dose for most](#)
In a reversal of earlier advice, Europe's drug regulatory agency said today that a single dose of the approved adjuvanted H1N1 vaccines may be sufficient in most adults and older children. In October the agency had affirmed an earlier two-dose recommendation. But today regulators said a single dose can be used in adults between ages 18 and 60, and also in children from age 9 (for Focetria) or 10 (for Pandemrix). They said a single dose of Pandemrix is also sufficient for elderly people. [[Nov 20 European Medicines Agency release](#)]

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

Health Protection Agency (UK)

[NOV 20] [Pandemic H1N1 2009 in England: an overview of initial epidemiological findings and implications for the second wave](#)

[NOV 20] [HPA Weekly international summary](#)

[NOV 19] [Weekly Epidemiological Update: 19 November 2009 \(Week 47\)](#)

[NOV 13] [The Green Book: 23a : Pandemic influenza A\(H1N1\)v 2009 \(swine flu\)](#)

[ARCHIVED] [Swine Influenza page](#)

Department of Health (UK)

[NOV 19] [Swine flu vaccination: NHS prepares next step](#)

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

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



[NOV 23] [Daily update – Pandemic H1N1 2009 \(Nov 23 2009\)](#)

- The number of confirmed deaths reported by EU & EFTA countries as due to the pandemic rose by two thirds in one week to 169;
- Routine surveillance reports from primary care indicate that almost all European countries reported intensity above baseline levels. Seventeen countries showed increasing trends mostly counties in Eastern Europe. But some countries are now reported decreasing trends;
- EMEA's Committee on Human Medical Products has strengthened its previous statement that a single injection of the vaccines Focetria and Pandemrix may be sufficient to protect children over age 10 and adults to age sixty;
- EMEA also sees no evidence to date that any of the licensed vaccines have side effects more than those expected from the clinical trials;
- A mutation in the Haemagglutinin gene of the pandemic virus has been reported from Norway;
- Two clusters of possible transmission of oseltamivir resistant Pandemic Influenza A(H1N1)v among hospitalized patients in the United Kingdom and United States;
- Episuouth update from countries of the Mediterranean and the Balkans included.

[NOV 18] [Oseltamivir-resistant pandemic \(H1N1\) 2009 influenza virus, October 2009](#)

Patients have been geographically dispersed and not linked and the viruses were all susceptible to the other common antiviral, zanamivir (Relenza). Of the 32 cases detailed, two factors may have played a role: reduced immunity and preventive antiviral therapy (prophylaxis). Three cases had no known history of exposure to oseltamivir.

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

European Union

[NOV 20] [European Medicines Agency reaffirms efficacy and safety of H1N1 pandemic vaccines](#)

[NOV 17] [Outcome of the Health Security Committee meeting, 12 and 13 November 2009, Luxembourg](#)

[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 20] [Public health significance of virus mutation detected in Norway: Pandemic \(H1N1\) 2009 briefing note 17](#)
- [NOV 20] [Epidemiological summary of pandemic influenza A \(H1N1\) 2009 virus – Ontario, Canada, June 2009](#)
- [NOV 20] [Pandemic \(H1N1\) 2009 - update 75](#)
- [NOV 20] [Transcript of virtual press conference with Dr Marie-Paule Kieny, Director, Initiative for Vaccine Research, World Health Organization](#)
Early experiences with pandemic vaccines in several countries suggest they have a similar safety profile to seasonal flu vaccines. Immunization campaigns are now underway in 40 countries and national authorities from several of them are tracking vaccine safety and regularly sharing their findings with the WHO.
- [NOV 19] [Safety of pandemic vaccines. Pandemic \(H1N1\) 2009 briefing note 16](#)
- [ARCHIVED] [WHO H1N1 Guidance Documents](#)
- [ARCHIVED] [Older WHO Updates](#)

Pan-American Health Organization (PAHO)

- [NOV 16] [Regional Update. Pandemic \(H1N1\) 2009 \(published Nov 16\)](#)
- Influenza-like illness activity remained above what is expected for this time of year in Canada and the United States; in Mexico, it surpassed the level that was observed during the first wave of the pandemic
 - Caribbean countries reported mostly unchanged trends but high intensity of acute respiratory disease this week
 - Central America continues to report overall decreasing trends in acute respiratory disease
 - Most of South America had stable or decreasing trends of acute respiratory disease, with the exception of Colombia and Peru, which reported an increasing trend
 - Venezuela reported that the outbreak of acute respiratory illness in the Yanomami communities has ended
 - A median of 99.9% of subtyped influenza A viruses were pandemic (H1N1) 2009
 - 294 new confirmed deaths in eight countries were reported; in total there have been 4,806 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.



[NOV 23] [Australian Influenza Surveillance Summary Report No.27, 2009, Reporting Period: 7 November 2009 – 13 November 2009](#)

[NOV 18] [New Zealand Pandemic Influenza \(H1N1\) 09 Swine Flu - Update 161](#)
Influenza activity in New Zealand continues to be low, with visits to doctors for influenza-like illness (ILI) being below the "baseline" level. Deaths attributed to pandemic influenza remain at 20.

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

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

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)



[NOV 23] [The Early Transmission Dynamics of H1N1pdm Influenza in the United Kingdom](#)

Ghani AC, et al. PLoS Currents: Influenza.



[NOV 23] [H1N1 vaccination and adults with underlying health conditions in the US](#)

Goldstein E, Lipsitch M. PLoS Currents: Influenza.



[NOV 23] [Pandemic H1N1 influenza virus: Academy perspectives on pharmacy's critical role in treatment, prevention.*](#)

Mullen E, Smith GH, Irwin AN, Angeles M. J Am Pharm Assoc (2003). 2009 November-December 1;49(6):722-728. No abstract available. PMID: 19926552.



[NOV 23] [Pandemic \(H1N1\) 2009 virus outbreak in a school in London, April-May 2009: an observational study.*](#)

Calatayud L, et al. Epidemiol Infect. 2009 Nov 20:1-9. [Epub ahead of print]. PMID: 19925691.



[NOV 23] [Top Ten List of Long-Term Care Facility Preparations for the Upcoming Influenza Season.*](#)

Pierce JR Jr, Kellie SM, West TA, Richardson JM, Neale DA, Montgomery OG, McClure SC, Bell TE. J Am Geriatr Soc. 2009 Nov 17. [Epub ahead of print]. PMID: 19925612.



[NOV 23] [Virological Diagnosis of Respiratory Virus Infection in Patients Attending an Emergency Department during the Influenza Season.*](#)

Pierangeli A, Scagnolari C, Gentile M, Spina MT, Iudicello A, Bertazzoni G, Antonelli G. Clin Microbiol Infect. 2009 Nov 19. [Epub ahead of print]. PMID: 19925480.



[NOV 20] [The Novel Influenza A H1N1 Epidemic of Spring 2009: National After Action Workshop on a Federal Public Health Emergency: 21–22 September 2009 Torrance, California](#) (Special report – web exclusive)

Dorian A, Rottman SJ, Shoaf K, Tharian B. Prehospital and Disaster Medicine.

[NOV 20] [The economy-wide impact of pandemic influenza on the UK: a computable general equilibrium modelling experiment](#)

Smith RD, Keogh-Brown MR, Barnett T, Tait J. BMJ. Published 19 November 2009, doi:10.1136/bmj.b4571. BMJ 2009;339:b4571.

[NOV 20] [Editorial: The Economic Impact of Pandemic Influenza](#)

Maynard A, Bloor K. Published 19 November 2009, doi:10.1136/bmj.b4888. BMJ 2009;339:b4888.

[NOV 20] [Establishment of public health security in Saudi Arabia for the 2009 Hajj in response to pandemic influenza A H1N1](#)

Memish ZA, et al. Lancet. 374(9703):1786-1791. 21 November 2009. doi:10.1016/S0140-6736(09)61927-9.

[NOV 20] [Differentiation of two distinct clusters among currently circulating influenza A\(H1N1\)v viruses, March-September 2009.](#)

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[NOV 20] [Oseltamivir-resistant influenza A\(H1N1\) viruses detected in Europe during season 2007-8 had epidemiologic and clinical characteristics similar to co-circulating susceptible A\(H1N1\) viruses.](#)

Ciancio BC, et al. Euro Surveill. 2009;14(46):pii=19412.

[NOV 20] [Antiviral Medications for Pregnant Women for Pandemic and Seasonal Influenza: An Economic Computer Model](#)

Lee BY, Bailey RR, Wiringa AE, Assi TM, Beigi RH. Obstetrics and Gynecology. Nov 2009. 114(5): 971-980.

[NOV 20] [H1N1 influenza A virus-associated acute lung injury: response to combination oseltamivir and prolonged corticosteroid treatment.*](#)

Quispe-Laime AM, et al. Intensive Care Med. 2009 Nov 19. [Epub ahead of print] PMID: 19924393

- [NOV 20] [Antiviral Treatment for Patients Hospitalized with 2009 Pandemic Influenza A \(H1N1\).](#)
Uyeki T. N Engl J Med. 2009 Nov 18. [Epub ahead of print] No abstract available. PMID: 19923564
- [NOV 20] [Protocol: Transmission and prevention of influenza in Hutterites: Zoonotic transmission of influenza A: swine & swine workers.](#)
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- [NOV 20] [Swine influenza \(H1N1\): Diagnostic dilemmas early in the pandemic.*](#)
Cunha BA, Pherez FM, Strollo S. Scand J Infect Dis. 2009;41(11-12):900-902. No abstract available. PMID: 19922079
- [NOV 19] [Risk factors and outcomes among children admitted to hospital with H1N1](#)
Sean O'Riordan MB BChir PhD, Michelle Barton MBBS DM, Yvonne Yau MD et al. Published online ahead of print November 19, 2009. CMAJ 10.1503/cmaj.091724
- [NOV 19] [Influenza surveillance, the swine-flu pandemic, and the importance of virology](#)
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- [NOV 19] [Understanding influenza virus-specific epidemiological properties by analysis of experimental human infections*](#)
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- [NOV 19] [Rapid-Test Sensitivity for Novel Swine-Origin Influenza A \(H1N1\) Virus in Humans](#)
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- [NOV 19] [Evolutionary Trends of A\(H1N1\) Influenza Virus Hemagglutinin Since 1918.](#)

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- [NOV 19] [Seasonal, Avian, and Novel H1N1 Influenza: Prevention and Treatment Modalities \(December\).](#)*
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- [NOV 19] [Favourable outcome of pneumonia due to novel influenza A/H1N1 2009 virus in a splenectomised adult patient undergoing therapy for non-Hodgkin lymphoma.](#)*
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- [NOV 19] [Pandemic influenza: human rights, ethics and duty to treat.](#)*
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- [NOV 19] [Swine flu: provision of ventilation in a worst-case scenario.](#)
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- [NOV 19] [A Live Attenuated H1N1 M1 Mutant Provides Broad Cross-Protection against Influenza A Viruses, Including Highly Pathogenic A/Vietnam/1203/2004, in Mice.](#)
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- [NOV 19] [Swine flu: environmental health gets a patient's-eye view.](#)*
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- [NOV 19] [Influenza vaccine market dynamics.](#)
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- [NOV 18] [Host Cell Selection of Influenza Neuraminidase Variants: Implications for Drug Resistance Monitoring in A\(H1N1\) Viruses.](#)
Okomo-Adhiambo M, et al. Antiviral Res. 2009 Nov 13. [Epub ahead of print] PMID: 19917319 [PubMed - as supplied by publisher]
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- [NOV 18] [Drive-through triage and care system: lessons learned from a pandemic drill.](#)
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- [NOV 18] [Dynamics of Clinical Symptoms in a Case with Pandemic Influenza A \(H1N1\).](#)
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- [NOV 18] [Rates of hospitalisation for acute respiratory illness and the emergence of pandemic \(H1N1\) 2009 virus in the Hunter New England Area Health Service.](#)
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- [NOV 17] [Best practices in perinatal care: prevention and treatment of novel influenza A \(H1N1\) virus during pregnancy and the immediate postbirth period.](#)
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