

pH1N1 Flu Virus (Human Swine Influenza) Information Resources

Current as of November 25, 2009 at 4pm

Highlights

PHAC et al: [Clinical Guidance for the Management of Influenza-Like Illness in the Context of Pandemic H1N1 Influenza Virus in Adult Intensive Care Units](#)

CDC: [New: 3D Graphical Representations of a Generic Influenza Virus](#)

[New: Information about the 2009 H1N1 Virus](#)

[Update: 2009 H1N1 Monovalent Influenza Vaccine Dosage, Administration, and Storage](#)

[New: Questions and Answers: CDC Guidance for Emergency Shelters for the 2009-2010 Flu Season](#)

WHO: [Health conditions for travellers to Saudi Arabia for the pilgrimage to Mecca \(Haji\)](#)

Literature -----

BMJ : [Up to a third of schoolchildren in some parts of England may already have had swine flu](#)

JAMA: [Emergency Influenza Drug](#)

News -----

CIDRAP: [CDC confirms doctor had repeat H1N1](#)

[Study revisits issue of lab origin for H1N1](#)

[Registry tracks ECMO use in flu patients](#)

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Updates by Jurisdiction

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[Ontario Ministry of Health and Long-Term Care \(MOHLTC\)](#)
[Ontario Agency for Health Promotion and Protection \(OAHPP\)](#)

Canada

[Public Health Agency of Canada \(PHAC\)](#)

United States

[Centers for Disease Control and Protection \(CDC\)](#)
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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 \(WHO\)](#)
[Pan American Health Organization \(PAHO\)](#)
[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 23] Know what to do about the flu: Special Webcast for Bloggers
Date: November 23, 2009
Guests: Rear Admiral Anne Schuchat, CDC
<http://flu.gov/news/knowwhattodo.html>
- [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](#)

[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 (O AHPP)

[NOV 24] [Weekly Synthesis of Surveillance Information, Literature & Government Updates \(Week ending Nov 20, 2009\)](#)

[NOV 16] [Ontario Agency for Health Protection and Promotion Laboratory Pandemic H1N1 Surveillance Report](#)

[ARCHIVED] [Swine influenza outbreak page](#)

Public Health Agency of Canada (PHAC)

PHAC issues national updates on H1N1-associated deaths on Tuesdays and Thursdays at 4 pm, and will report regularly on any unusual outbreaks or clusters of illness.

- [NOV 24] [Deaths Associated with H1N1 flu virus in Canada](#) (as of Nov 24)
 - New deaths reported Nov 20-24: 29
 - Cumulative total: 279

- [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 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 25] [New: 3D Graphical Representations of a Generic Influenza Virus](#)

- [NOV 25] [New: Information about the 2009 H1N1 Virus](#)

- [NOV 24] [Update: 2009 H1N1 Monovalent Influenza Vaccine Dosage, Administration, and Storage](#)

- [NOV 24] [New: Questions and Answers: CDC Guidance for Emergency Shelters for the 2009-2010 Flu Season](#)

- [NOV 24] [2009 H1N1 Flu and You Question Added: What Should I Do If I Have a Fever?](#)

- [NOV 23] [Prevention of 2009 H1N1 Influenza Transmission in Dental Health Care Settings](#)

- [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 24] Flu.gov: [Updated Guidance for the Use of CSL™ 2009 H1N1 Monovalent Vaccine](#)
- [NOV 23] Letter: [APHA asks Obama to support CDC's N-95 stance](#)
- [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 24]

[Novartis unveils US cell-based flu vaccine plant](#)

Robert Roos (CIDRAP News) – The era of cell-based influenza vaccine production in the United States seemed to move closer today as Novartis unveiled its new, nearly billion-dollar manufacturing plant in Holly Springs, N.C., but onshore production and marketing of cell-based vaccines remains a few years away.



[NOV 24]

[Study revisits issue of lab origin for H1N1](#)

After examining publicly available genetic sequences, virologist Adrian Gibbs and colleagues suggest in a study in *Virology Journal* today that the pandemic H1N1 virus may have been the product of a lab. In May the World Health Organization (WHO) examined Gibbs's assertions and said natural means were more likely. Gibbs told Bloomberg News today that, while genes from different flu strains may have mixed naturally to form novel H1N1, human involvement is "by far the simplest explanation." [[Nov 24 Virol J study](#)]



[NOV 24]

[Registry tracks ECMO use in flu patients](#)

A voluntary registry based in the United States shows that 107 patients who were critically ill with pandemic H1N1 flu have been treated with extracorporeal membrane oxygenation (ECMO), the Associated Press (AP) reported. Research at the University of Michigan on the registry is under way to assess the best candidates for the treatment. ECMO allows blood to bypass damaged lungs to allow healing. [[Nov 23 AP story](#)]



[NOV 24]

[CDC confirms doctor had repeat H1N1](#)

The Centers for Disease Control and Prevention (CDC) confirmed that a West Virginia pediatrician contracted novel H1N1 flu twice, in August and in October, according to the *Charleston Daily Mail*. Local labs had confirmed that Dr Debra Parsons had pandemic flu both times she was sick. Now more exacting tests from the CDC on both samples have confirmed the results. A state health official called this occurrence "very, very, very rare." [[Nov 24 Daily Mail report](#)]



[NOV 24]

[Japan reports flu-related brain swelling](#)

Japan has identified 132 influenza patients who have developed encephalopathy, or brain swelling caused by an immune overreaction, according to Japan's *Yomiuri Shimbun* newspaper. This is triple the expected annual number. Patients ranged in age from 1 to 67, but most were under 15, with 7-year-olds most commonly affected. Three patients died. A senior health official said that flu patients who have slow responses or say "strange things" should see a doctor immediately. [[Nov 24 Yomiuri Shimbun article](#)]



[NOV 24]

[Mexico receives first vaccine doses](#)

Mexico's health ministry announced yesterday that it had received its first 865,000 doses of pandemic H1N1 vaccine, Agencia EFE, a Spanish news service, reported. The country's health secretary, Jose Angel Cordova, said officials will review the vaccine and administer the first doses this week to pregnant women and health workers. He said Mexico expects 30 million doses from Sanofi and GlaxoSmithKline by February 2010. Doses will go to states based on population. [[Nov 24 EFE report](#)]



[NOV 24]

[Ukraine to receive vaccine from WHO](#)

The WHO said it would provide 5 million H1N1 vaccine doses to the Ukraine, the news service Interfax-Ukraine reported. The news came during a meeting between WHO officials and the country's president, the president's press service reported.

Authorities from the WHO have been in the Ukraine to investigate a dramatic increase in respiratory illnesses, including severe cases and deaths. However, initial reports found no significant pandemic virus changes. [[Nov 24 Interfax-Ukraine story](#)]

[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 \(Week 47\)](#)

[ARCHIVED] [Swine Influenza page](#)

Department of Health (UK)

[NOV 23] [Exercise Peak Practice: National Summary](#)

[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 25] [Daily update – Pandemic H1N1 2009 \(Nov 25 2009\)](#)

- WHO publication on health requirements for pilgrims travelling to Hajj reviewed;
- Total of 714 fatal cases in Europe and EFTA countries and 7 195 in the rest of the world have been reported up to date.

[NOV 24] [ECDC EXECUTIVE UPDATE Pandemic influenza \(H1N1\) 2009 Issue 20 Monday, 23 November 2009](#)

[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 25] [18 countries report high pandemic \(H1N1\) 2009 activity](#)
- [NOV 20] [European Medicines Agency reaffirms efficacy and safety of H1N1 pandemic vaccines](#)
- [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 25] [Health conditions for travellers to Saudi Arabia for the pilgrimage to Mecca \(Hajj\) / Dispositions sanitaires pour les voyageurs se rendant en Arabie saoudite pour le pèlerinage à La Mecque \(Hadj\)](#)
- [NOV 24] [Gathering vital evidence: the work of influenza laboratories on pandemic \(H1N1\) 2009](#)
- [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 \(published Nov 16\)](#)
- [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 25] News: [Up to a third of schoolchildren in some parts of England may already have had swine flu](#)
BMJ 2009;339:b5051



- [NOV 25] [Emergency Influenza Drug](#)
Kuehn BM. *JAMA*. 2009;302(20):2194

- [NOV 24] [Laboratory Surge Response to Pandemic \(H1N1\) 2009 Outbreak, New York City Metropolitan Area, USA](#)
J.M. Crawford et al. *EID* (Epub ahead of print)

- [NOV 24] [Epidemiology of Travel-associated Pandemic \(H1N1\) 2009 Infection in 116 Patients, Singapore](#)
P. Mukherjee et al. *EID* (Epub ahead of print)

- [NOV 24] [CORRESPONDENCE Novel Influenza A \(H1N1\) Presenting as an Acute Febrile Encephalopathy in a Mother and Daughter](#) *

Gonzalez BE, Brust DG. Clinical Infectious Diseases 2009;49:1966–1967

- [NOV 24] [Risk factors and outcomes among children admitted to hospital with pandemic H1N1 influenza.](#)
O'Riordan S, Barton M, Yau Y, Read SE, Allen U, Tran D. CMAJ. 2009 Nov 19. [Epub ahead of print]PMID: 19926677
- [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.](#)
Fereidouni SR, Beer M, Vahlenkamp T, Starick E. Euro Surveill. 2009;14(46):pii=19409.
- [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](#)
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- [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.](#)
Russell ML, Keenlside J, Webby R, Fonseca K, Singh P, Moss L, Loeb M. BMC Public Health. 2009 Nov 18;9(1):420. [Epub ahead of print] PMID: 19922661
- [NOV 20] [Swine influenza \(H1N1\): Diagnostic dilemmas early in the pandemic.*](#)
Cunha BA, Pherez FM, Stollo 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](#)
Fleming D. Clinical Evidence. BMJ: Published online Nov 17, 2009.

- [NOV 19] [Understanding influenza virus-specific epidemiological properties by analysis of experimental human infections*](#)
C.-M. Liao, S.-C. Yang, C.-P. Chio And S.-C. Chen. Epidemiology and Infection, doi:10.1017/S0950268809991178 Published Online by Cambridge University Press 18 Nov 2009.
- [NOV 19] [Rapid-Test Sensitivity for Novel Swine-Origin Influenza A \(H1N1\) Virus in Humans](#)
C.C. Blyth, J.R. Iredell, and D.E. Dwyer. Published at www.nejm.org November 18, 2009 (10.1056/NEJMc0909049)
- [NOV 19] [A novel hypothesis for the etiology of pneumococcal co-infection in influenza*](#)
Eisenhut M. Vaccine. In Press, Uncorrected Proof, Available online 17 November 2009
- [NOV 19] [Vasculitis in a boy with ESRD following influenza vaccination*](#)
Catania P, Pela I. Vaccine. In Press, Uncorrected Proof, Available online 17 November 2009
- [NOV 19] [Estimate of Novel Influenza A/H1N1 cases in Mexico at the early stage of the pandemic with a spatially structured epidemic model.](#)
Collizza V et al. PLoS Currents: Influenza. Published online 18 November 2009.
- [NOV 19] [Evolutionary Trends of A\(H1N1\) Influenza Virus Hemagglutinin Since 1918.](#)
Shen J, Ma J, Wang Q, 2009. PLoS ONE 4(11): e7789. doi:10.1371/journal.pone.0007789
- [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.*](#)
García-Suárez J, Martín Y, Callejas M, Rodriguez-Dominguez M, Galán JC, Burgaleta C.Br J Haematol. 2009 Nov 16. [Epub ahead of print] No abstract available.
- [NOV 19] [Pandemic influenza: human rights, ethics and duty to treat.*](#)
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- [NOV 19] [Identifying changes in selective constraints: host shifts in influenza.](#)
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- [NOV 19] [Estimating Influenza vaccine effectiveness using routinely collected laboratory data.*](#)
Fleming DM, et al. J Epidemiol Community Health. 2009 Nov 12. [Epub ahead of print]

- [NOV 19] [Swine flu: provision of ventilation in a worst-case scenario.](#)
Doyle A, Carter J, Young P. Crit Care. 2009 Oct 28;13(5):422. [Epub ahead of print]
- [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.](#)
Xie H, Liu TM, Lu X, Wu Z, Belser JA, Katz JM, Tumpey TM, Ye Z. J Infect Dis. 2009 Nov 12. [Epub ahead of print]
- [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]
- [NOV 18] [Evidence for a novel gene associated with human influenza A viruses.](#)
Clifford M, Twigg J, Upton C. Virol J. 2009 Nov 16;6(1):198. [Epub ahead of print] PMID: 19917120 [PubMed - as supplied by publisher]
- [NOV 18] [Drive-through triage and care system: lessons learned from a pandemic drill.](#)
Callagy P, Woodfall M. J Emerg Nurs. 2009 Nov;35(6):588-93. No abstract available. PMID: 19914497 [PubMed - in process]
- [NOV 18] [Boston Medical Center Pediatric Emergency Response to H1N1.](#)
Cooper MC, et al. J Emerg Nurs. 2009 Nov;35(6):580-3. Epub 2009 Aug 29. No abstract available. PMID: 19914494 [PubMed - in process]
- [NOV 18] [Dynamics of Clinical Symptoms in a Case with Pandemic Influenza A \(H1N1\).](#)
Lee CS, Lee JH. Clin Microbiol Infect. 2009 Nov 13. [Epub ahead of print] No abstract available. PMID: 19912268 [PubMed - as supplied by publisher]
- [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 18] [Letter to the Editor: A novel hypothesis for the etiology of pneumococcal co-infection in influenza](#)
Eisenhut M. Vaccine. [Epub ahead of print] doi:10.1016/j.vaccine.2009.10.140

- [NOV 18] [Clinical Effectiveness of Oseltamivir and Zanamivir for Treatment of Influenza A Virus Subtype H1N1 with the H274Y Mutation: A Japanese, Multicenter Study of the 2007-2008 and 2008-2009 Influenza Seasons.](#)
Kawai N, et al. Clin Infect Dis. 2009 Nov 13. [Epub ahead of print] PMID: 19911968 [PubMed - as supplied by publisher]
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- [OCT 29] [H1N1 Backgrounder: Planes, Trains, Ferries and Buses—Advice for Travellers, Crews and Operators](#)
- [OCT 26] [Hajj Pilgrims: Recommendations for travel](#)