

H1N1 Flu Virus (Human Swine Influenza) Information Resources

Current as of August 25, 2009 at 4pm

Highlights

New Research collection: [PLoS Currents: Influenza](#)

The current epidemic of swine-origin H1N1 influenza A virus highlights the need for the rapid exchange of scientific results and ideas. PLoS Currents: Influenza aims to enable this exchange by providing an open-access online resource for immediate, open communication and discussion of new scientific data, analyses, and ideas in the field of influenza. All content is moderated by an expert group of influenza researchers.

[First estimation of direct H1N1pdm virulence: from reported non consolidated data from Mauritius and New Caledonia](#)

[Fitness of Pandemic H1N1 and Seasonal influenza A viruses during Co-infection: evidence of competitive advantage of pandemic H1N1 influenza versus seasonal Influenza](#)

[The Contribution of the PB1-F2 Protein to the Fitness of Influenza A Viruses and its Recent Evolution in the 2009 Influenza A \(H1N1\) Pandemic Virus](#)

[Reducing influenza spreading over the airline network](#)

[Conditions Under Which Predispensing of Antiviral Drugs to Individuals at High Risk of Death from Pandemic Influenza Is Expected to Save Lives](#)

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United States

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Europe

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

Current / Upcoming



[AUG 26] Upcoming Clinician Outreach and Communication Activity (COCA) conference call: **Pediatric call: H1N1 vaccine and school guidance.**

SPEAKERS: Georgina Peacock, MD MPH
Pascale Wortley, MD MPH
Lisa Barrios, DrPH MS

DATE: Wednesday, August 26, 2009 TIME: 4:00 - 5:00 PM ET

CALL-IN NUMBER: 888-283-2960 PASSCODE: 8193208

There will be a PowerPoint Presentation for this call that will be available by Wednesday, August 26th: <http://emergency.cdc.gov/coca/callinfo.asp>

Archived

[AUG 25] [Corporate preparedness for H1N1: How pressure-tested planners are bracing now for fall](#)

[AUG 20] [Maine H1N1 Influenza Preparedness Summit](#)
The goal of this Summit is to help Maine prepare for the fall and to plan for a statewide H1N1 vaccination campaign.

[AUG 13] [Experts air practical PPE considerations to Institute of Medicine](#)
On the second and final day of an Institute of Medicine (IOM) task force meeting on how to protect healthcare workers from the novel H1N1 virus, experts focused on issues surrounding the effectiveness and practical use of masks and respirators in work settings.

[AUG 11-13] [Workshop on personal protective equipment for healthcare workers in the workplace against novel H1N1 influenza A](#)
This workshop will examine the emerging science and clinical experience base associated with nH1N1, discuss criteria used to delineate infection control guidelines and assess risk to the healthcare workforce, and examine what's known about the effectiveness of masks, respirators, gowns, gloves, and eye protection in preventing H1N1 transmission.

Ministry of Health and Long-Term Care (MOHLTC)

[AUG 21] [Ontario Influenza Bulletin: Surveillance Week 32 \(Aug 9 – Aug 15\)](#)

The Influenza Bulletin provides information based on the surveillance period August 9 to August 15, 2009. Case counts from the previous week are submitted to the ministry by public health units every Tuesday. Data on hospitalizations and deaths is submitted daily and therefore is accurate as of August 19th.

For the surveillance period of August 9 to August 15, 2009 :

- Influenza activity in Ontario similar compared to previous week.
- Ontario health units reported 22 new confirmed cases of influenza through iPHIS, including 14 laboratory confirmed cases of pH1N1
- During week 32, new laboratory confirmed cases of pH1N1 continued to be seen across the province, with Central West reporting most of these cases. No new institutional influenza outbreaks were reported.
- For week 32, North East health region reported 'localized' level activity while the remaining health regions reported 'sporadic' level activity.
- The rate of influenza-like illness (ILI) in patients seen by sentinel physicians was above the range that is expected for this time of the year based on the average ILI rate reported in week 32 for the past 3 years.

As of August 19:

- 22 deaths have been reported among confirmed H1N1 cases.
- Total of 4 007 cases
- 37 people who have the H1N1 flu virus were in hospital as of August 19, a number of whom have underlying medical conditions. 315 other people have been hospitalized and have since been discharged.
- A higher number of hospitalized cases were reported this week. One new death among cases were reported this week.

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

Important Health Notices

Last H1N1 update was August 18

Ontario Agency for Health Protection and Promotion (OAHP)

[AUG 18] [H1N1 weekly synthesis of surveillance information, literature & government updates for week ending Aug 14, 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.



[AUG 25] [Deaths associated with H1N1 flu virus in Canada](#)

No deaths reported since the previous update, for a cumulative total of 71 as of Aug 25

- [AUG 24] [FluWatch findings for Week 32 \(week ending Aug 15\)](#)
- Overall influenza activity decreased this week; the reported activity level (2 regions reported localized activity), the proportion of influenza positive tests (4.2%), the overall number of influenza outbreaks (1) are lower compared to last week. The national ILI consultation rate (15 consultations per 1,000 visits) remains similar to the previous week.
 - As of August 15, 2009, a total of 1,422 hospitalized cases and 275 cases admitted to an intensive care unit (ICU) had been reported to the Public Health Agency of Canada. This week, four new deaths were reported for a total of 70 deaths since the beginning of the pandemic. 90% of the hospitalized cases and more than 85% of the deaths have been reported by only 4 provinces (Alberta, Manitoba, Ontario and Quebec).
 - Overall Pandemic (H1N1) 2009 activity still decreasing across Canada
 - Those under 15 have the highest rates of hospitalization. Mortality is highest in those 45 years and older (mortality also elevated in the population <1 yr)

[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.

- [AUG 21] [2009 H1N1 Flu situation update](#)
- 7,983 hospitalizations
 - 522 deaths
- [AUG 21] [Novel 2009 H1N1 Flu: International situation update](#)
- The 2009 H1N1 influenza virus is the predominant influenza virus in circulation worldwide.
 - The epidemiology of the disease caused by the 2009 H1N1 influenza virus in the Southern Hemisphere is very similar to that described in the United States this past spring.
 - There have been no significant changes detected in the 2009 H1N1 influenza virus isolated from persons in the Southern Hemisphere as compared to viruses isolated from persons in the Northern Hemisphere.
- [AUG 21] [Influenza A \(H1N1\) 2009 monovalent vaccine safety monitoring: CDC planning for state, local, tribal, and territorial health officials](#)
- [AUG 21] [Use of Influenza A \(H1N1\) 2009 monovalent vaccine](#)
Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2009. Use of Influenza A (H1N1) 2009 Monovalent Vaccine. MMWR. 2009; 58; Early Release.
- [AUG 20] [Preparing for the flu: A communication toolkit for institutions of higher education](#)

[AUG 20] [Federal guidelines encourage employers to plan now for upcoming influenza season: recommendations range from encouraging hand washing to allowing some employees to stay home](#)

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

Other US Sources



[AUG 24] [Duncan, Sebelius Unveil Recommendations for Schools on How Learning Continues in Case of Flu Outbreak](#)



[AUG 24] [President's Council of Advisors on Science and Technology \(PCAST\) releases report assessing H1N1 preparations](#)

[AUG 24] Agency for Healthcare Research and Quality: [Home health care during an influenza pandemic: issues and resources](#)

[AUG 24] National Institute of Allergy and Infectious Diseases: [First results of novel H1N1 vaccine trials—needed for determining the number and size of doses people will get—are expected in mid-September](#)

Center for Infectious Disease Research and Policy



[AUG 24] [Presidential panel calls for planning czar, faster vaccine](#)

A White House expert advisory group today released a report calling for the Obama Administration to accelerate novel H1N1 vaccination preparation for high-risk Americans and appoint a White House pandemic preparedness point person, among other recommendations.



[AUG 24] [Panel urges HHS to prepare for H1N1 vaccine safety concerns](#)

An advisory committee today called on the Department of Health and Human Services (HHS) to be ready to respond quickly to safety concerns that may emerge during this fall's novel H1N1 influenza vaccination campaign.

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

Health Protection Agency (UK)

[AUG 20] [Weekly pandemic flu update](#)

- Further reduction in the rates of flu-like illness and related activity
- Weekly GP consultation rates continued to decrease in England
- Majority of cases continue to be mild. No sign that the virus is changing (it is not becoming more severe or developing resistance to anti-virals)
- 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 11,000 new cases in England last week (range 6,000 to 25,000). There has been a decrease in estimated number of

cases in all age groups and in all regions. *This estimate incorporates data from National Pandemic Flu Service and GP consultations.*

[AUG 20] [Weekly National Influenza Report \(Week 34\)](#)

[ARCHIVED] [Swine Influenza page](#)

Department of Health (UK)

[AUG 20] [Pandemic flu: planning and responding to primary care capacity challenges](#)

[AUG 20] [Advice concerning organ donation and H1N1](#)

[AUG 20] [Swine Flu: Authorisation of the supply of antivirals](#)

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

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



[AUG 25] [ECDC Situation Report for Aug 25](#)

- 93 new cases reported in the EU and EFTA countries, reaching a total of 43 245 cases; 1 685 new cases including 22 fatal cases, were reported from non-EU and EFTA countries, reaching a cumulative total of 211 702 cases;
- ECDC Scientific Advance review published;
- US president's advisors release report assessing pandemic influenza preparedness;
- ECDC summary of weekly media monitoring included.

[AUG 21] [Weekly Epidemiological bulletin – Week 33](#)

[AUG 21] [Sweden publishes recommendations for vaccination](#)

[AUG 21] [ECDC publishes health education guidance on the use of influenza antivirals](#)

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

European Union



[AUG 25] [EU Health Security Committee \(HSC\) / Early Warning and Response System \(EWRS\) : HSC/EWRS Statement on Influenza A\(H1N1\) 2009: target and priority groups for vaccination](#)



[AUG 25] [France launches a new communication campaign on Influenza A\(H1N1\) \[in French\]](#)

[AUG 21] [Ireland starts Pandemic H1N1 2009 public information campaign](#)

[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.

[AUG 21] [Pandemic \(H1N1\) 2009 - update 62 - REVISED](#)

Region	Cumulative total as of 13 Aug 2009	
	Cases*	Deaths
WHO Regional Office for Africa (AFRO)	1469	3
WHO Regional Office for the Americas (AMRO)	105882	1579
WHO Regional Office for the Eastern Mediterranean (EMRO)	2532	8
WHO Regional Office for Europe (EURO)	Over 32000	53
WHO Regional Office for South-East Asia (SEARO)	13172	106
WHO Regional Office for the Western Pacific (WPRO)	27111	50
Total	Over 182166	1799

*Given that countries are no longer required to test and report individual cases, the number of cases reported actually understates the real number of cases.

[AUG 21] [WHO Recommended use of antivirals](#)
Pandemic (H1N1) 2009 briefing note 8

[AUG 20] [WHO Guidelines for Pharmacological Management of Pandemic \(H1N1\) 2009 Influenza and other Influenza Viruses](#)

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

[ARCHIVED] [Older WHO Updates](#)

Pan-American Health Organization (PAHO)



[AUG 25] [Regional Update for Aug 21: Pandemic \(H1N1\) 2009](#)

As of August 21, 2009, a total of 110,113 confirmed cases have been notified in all 35 countries in the Americas Region. A total of 1,876 deaths have been reported among the confirmed cases in 22 countries of the Region.

On July 21, 2009, Canada reported the first case of oseltamivir-resistant pandemic (H1N1) 2009 virus in the Americas Region. Since then, the United States reported on

August 14, 2009 the detection of oseltamivir-resistant pandemic (H1N1) 2009 virus in two immunosuppressed patients in the State of Washington.

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

Australia and New Zealand

[AUG 24] [New Zealand Ministry of Health Situation Update 142](#)

There are a total of 3106 confirmed cases of Pandemic Influenza (H1N1) 09 swine flu, up from 3090 on 21 August. These are people who have returned a positive laboratory test for pandemic influenza (H1N1) 09. The number of deaths from Pandemic Influenza (H1N1) 09 swine flu is 16.



[AUG 25] [Health Emergency Australia Pandemic \(H1N1\) Update Bulletin for August 25](#)

- At noon Australia had 33 844 confirmed cases of pandemic (H1N1)
- The total number of Australian deaths associated with pandemic (H1N1) is currently 132
- There are currently 440 people in hospital around Australia with pandemic (H1N1), and 100 of these are in Intensive Care Units.

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

[ARCHIVED] [New Pandemic Phase Project - PROTECT Guidelines/Updates \[Australia\]](#)

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.*

[Medline literature search on H1N1](#) (current as of today)



[AUG 25] New Research collection : [PLoS Currents: Influenza](#) [the following list of updates are the most recent in the collection]

[First estimation of direct H1N1pdm virulence :from reported non consolidated data from Mauritius and New Caledonia.](#) Flahault A.

[Fitness of Pandemic H1N1 and Seasonal influenza A viruses during Co-infection : evidence of competitive advantage of pandemic H1N1 influenza versus seasonal Influenza.](#) Perez D, Ye J, Angel M, Pena L, et al.

[The Contribution of the PB1-F2 Protein to the Fitness of Influenza A Viruses and its Recent Evolution in the 2009 Influenza A \(H1N1\) Pandemic Virus.](#)

Trifonov V, Rabadan R, Racaniello.

[Reducing influenza spreading over the airline network.](#) Marcelino J, Kaiser M.

[Conditions Under Which Predispensing of Antiviral Drugs to Individuals at High Risk of Death from Pandemic Influenza Is Expected to Save Lives.](#) Goldstein E, Lipsitch M, O'Hagan J, Miller JC.

- [AUG 24] [Investment decisions in influenza pandemic contingency planning: cost-effectiveness of stockpiling antiviral drugs](#)
Lugner AK, Postma MJ. Investment decisions in influenza pandemic contingency planning: cost-effectiveness of stockpiling antiviral drugs. Eur J Public Health. 2009 Aug 19.
- [AUG 24] [The public's acceptance of novel vaccines during a pandemic: A focus group study and its application to influenza H1N1](#)
Henrich N, Holmes B. The public's acceptance of novel vaccines during a pandemic: A focus group study and its application to influenza H1N1. Emerging Health Threats Journal 2009, 2:e8.
- [AUG 24] [The Effect of Universal Influenza Immunization on Antibiotic Prescriptions: An Ecological Study](#)
Kwong JC, Maaten S, Upshur RE, Patrick DM, Marra F. The effect of universal influenza immunization on antibiotic prescriptions: an ecological study. Clin Infect Dis. 2009 Sep 1;49(5):750-6.
- [AUG 24] [Use of Animal Models to Understand the Pandemic Potential of Highly Pathogenic Avian Influenza Viruses](#)
Belser JA, Szretter KJ, Katz JM, Tumpey TM. Use of animal models to understand the pandemic potential of highly pathogenic avian influenza viruses. Adv Virus Res. 2009;73:55-97.
- [AUG 24] [Influenza at the 26th ICC](#)
McConnell J. Influenza at the 26th ICC. Lancet Infect Dis. 2009 Aug;9(8):464.
- [AUG 24] [Incidence of swine flu in England continues to fall, but winter surge is predicted](#)
Siva N. Incidence of swine flu in England continues to fall, but winter surge is predicted. BMJ. 2009;339:b3421.
- [AUG 24] [Ethical Guidelines in Pandemic Influenza: Recommendations of the Ethics Subcommittee of the Advisory Committee of the Director, Centers for Disease Control and Prevention](#)
Kinlaw K, Barrett DH, Levine RJ. Ethical Guidelines in Pandemic Influenza: Recommendations of the Ethics Subcommittee of the Advisory Committee of the

Director, Centers for Disease Control and Prevention. Disaster Med Public Health Prep. 2009 Aug 11. [Epub ahead of print]

- [AUG 22] [Clinical characteristics of paediatric H1N1 admissions in Birmingham, UK](#)
Hackett S, Hill L, Patel J, Ratnaraja N, Ifeyinwa A, Farooqi M, Nusgen V, Debenham V, Gandhi V, Makwana V, Smit V, Welch V. Clinical characteristics of paediatric H1N1 admissions in Birmingham, UK. Lancet. 2009; 374(969); 605.
- [AUG 22] [Swine-origin influenza virus H1N1, seasonal influenza virus, and critical illness in children](#)
Lister P, Reynolds F, Parslow R, Chan A, Cooper M, Plunkett A, Riphagen S, Peters S. Swine-origin influenza virus H1N1, seasonal influenza virus, and critical illness in children. Lancet. 2009; 374(969); 605-07.
- [AUG 21] [Influenza vaccination and mortality: differentiating vaccine effects from bias.](#)
Fireman B, Lee J, Lewis N, Bembom O, van der Laan M, Baxter R. Influenza vaccination and mortality: differentiating vaccine effects from bias. Am J Epidemiol. 2009 Sep 1;170(5):650-6.
- [AUG 21] [A/H1N1 pandemic: Case definition is too loose*.](#)
Wilson EJ, Williams J, McCarron B. A/H1N1 pandemic: Case definition is too loose*. BMJ 2009;339:b3365.
- [AUG 21] [Four at-risk groups will be first to be vaccinated against swine flu, says chief medical officer.*](#)
Dinsdale P. Four at-risk groups will be first to be vaccinated against swine flu, says chief medical officer.* BMJ 2009;339:b3363
- [AUG 21] [Use of revised international health regulations during influenza A \(H1N1\) epidemic, 2009.](#)
Katz R. Use of revised international health regulations during influenza A (H1N1) epidemic, 2009. Emerg Infect Dis. 2009;15(8): 1165-70.
- [AUG 20] [ASID/TSANZ guidelines: treatment and prevention of H1N1 influenza 09 \(human swine influenza\) with antiviral agents](#)
Cheng AC, Dwyer DE, Thomas C, Kotsimbos TC, Starr M, Korman TM, Buttery JP, Jenkins CR, Krause VL, Johnson PDR. ASID/TSANZ guidelines: treatment and prevention of H1N1 influenza 09 (human swine influenza) with antiviral agents. Med J Austr. 2009 [published online first]
- [AUG 20] [Optimizing Influenza Vaccine Distribution*](#)
Medlock J, Galvani AP. Optimizing influenza vaccine distribution. Science DOI: 10.1126/science.1175570. Published Online August 20, 2009
- [AUG 21] [Modelling the impact of an influenza A/H1N1 pandemic on critical care demand from early pathogenicity data: the case for sentinel reporting](#)
Ercole A, Taylor BL, Rhodes A, Menon DK. Modelling the impact of an influenza A/H1N1 pandemic on critical care demand from early pathogenicity data: the case for sentinel reporting*. Anaesthesia. 2009 Sep;64(9):937-41.
- [AUG 21] [Swine flu vaccination in patients with egg allergy](#)

Nasser S, Brathwaite N; BSACI Standards of Care Committee. Swine flu vaccination in patients with egg allergy. Clin Exp Allergy. 2009 Sep;39(9):1288-90.

- [AUG 21] [Influenza A \(H1N1\) infections among healthcare workers: a cause for cautious optimism.*](#)
Sng J, Koh D, Koh G. Influenza A (H1N1) infections among healthcare workers: a cause for cautious optimism.* Occup Environ Med. 2009 Sep;66(9):569-70.
- [AUG 21] [The 2009 influenza pandemic begins.](#)
Wood JM. The 2009 influenza pandemic begins. Influenza and Other Respiratory Viruses. 2009; 3(5): 197-198.
- [AUG 21] [With reference to Mexican flu](#)
de Lamballerie X, Gould EA. With reference to Mexican flu. Influenza and Other Respiratory Viruses. 2009; 3(5): 203-203.
- [AUG 21] [A review of medical masks and respirators for use during an influenza pandemic.](#)
Seale H, Dwyer DE, Cowling BJ, Wang Q, Yang P, MacIntyre CR. A review of medical masks and respirators for use during an influenza pandemic. Influenza and Other Respiratory Viruses. 2009; 3(5): 205-206.
- [AUG 21] [Diversity of influenza viruses in swine and the emergence of a novel human pandemic influenza A \(H1N1\)](#)
Brockwell-Staats C, Webster RG, Webby RJ. Diversity of influenza viruses in swine and the emergence of a novel human pandemic influenza A (H1N1). Influenza and Other Respiratory Viruses. 2009; 3(5): 207-213.
- [AUG 21] [Initial human transmission dynamics of the pandemic \(H1N1\) 2009 virus in North America](#)
Pourbohloul B, Ahued A, Davoudi B, Meza R, Meyers LA, Skowronski DM et al. Initial human transmission dynamics of the pandemic (H1N1) 2009 virus in North America. Influenza and Other Respiratory Viruses. 2009; 3(5): 215-222.
- [AUG 21] [Estimates of the impact of a future influenza pandemic in China.](#)
Yu H, Feng L, Peng Z, Feng Z, Shay DK, Yang W. Estimates of the impact of a future influenza pandemic in China. Influenza and Other Respiratory Viruses. 2009; 3(5): 223-231.
- [AUG 21] [Invited commentary on David Fedson's article.](#)
Clark I, Alleva L. Invited commentary on David Fedson's article. Influenza and Other Respiratory Viruses. 2009; 3(5): 199-201.
- [AUG 20] [Pandemic flu: will there be a second wave?](#)
Godlee F. BMJ 2009;339:b3394
- [AUG 20] Eurosurveillance 20 Aug 2009; 14(33)
[Epidemiology of fatal cases associated with pandemic H1N1 influenza 2009](#)
L Vaillant, G La Ruche, A Tarantola, P Barboza, for the epidemic intelligence team at InVS
This article describes the characteristics of 574 deaths associated with pandemic H1N1 influenza up to 16 July 2009. Data (except from Canada and Australia) suggest that the elderly may to some extent may be protected from infection

[The importance of school and social activities in the transmission of influenza A\(H1N1\)v: England, April – June 2009](#)

by I Kar-Purkayastha, C Ingram, H Maguire, A Roche

During the containment phase in the United Kingdom (April to June 2009), a cluster of influenza A(H1N1)v cases was identified prompting further investigation and public health action by the Health Protection Agency

[Epidemiological and clinical characteristics of influenza A\(H1N1\)v infection in children: The first 45 cases in Cyprus, June – August 2009](#)

by M Koliou, ES Soteriades, MM Toumasi, A Demosthenous, A Hadjidemetriou

Following the first imported case in a tourist in Cyprus on 2 June 2009, the influenza A(H1N1)v virus has spread on the island affecting mainly young adults and children.

[AUG 20] [Clinical and epidemiologic characteristics of 3 early cases of influenza A pandemic \(H1N1\) 2009 virus, People's Republic of China.](#)

Bin C, Xingwang L, Yuelong S, Nan J, Shijun C, Xiayuan X, et al; National Influenza A Pandemic (H1N1) 2009 Clinical Investigation Group. Emerg Infect Dis. 2009 Sep; [Epub ahead of print]

[AUG 20] [Nurses' contacts and potential for infectious disease transmission.](#)

Bernard H, Fischer R, Mikolajczyk RT, Kretzschmar M, Wildner M. Emerg Infect Dis. 2009 Sep; [Epub ahead of print]

[AUG 20] [Genomic diversity of oseltamivir-resistant influenza virus A \(H1N1\), Luxembourg, 2007–08 \[letter\].](#)

Gerloff NA, Kremer JR, Mossong J, Opp M, Muller CP. Emerg Infect Dis. 2009 Sep; [Epub ahead of print]

[AUG 20] [Emergence of European Avian Influenza Virus-Like H1N1 Swine Influenza A Viruses in China](#)

Jinhua Liu, Yuhai Bi, Kun Qin, Guanghua Fu, Jun Yang, Jinshan Peng, Guangpeng Ma, Qinfang Liu, Juan Pu, and Fulin Tian. Journal of Clinical Microbiology, August 2009, p. 2643-2646, Vol. 47, No. 8.

[AUG 19] [Modeling the effects of influenza vaccination of health care workers in hospital departments](#) *

van den Dool C, Bonten MJ, Hak E, Wallinga J. Modeling the effects of influenza vaccination of health care workers in hospital departments. Vaccine. Epub ahead of print.

[AUG 19] [Safety and Immunogenicity of a Novel Influenza Subunit Vaccine Produced in Mammalian Cell Culture](#)

Szymczakiewicz-Multanowska A, Groth N, Bugarini R, et al. Safety and immunogenicity of a novel influenza subunit vaccine produced in Mammalian cell culture. J Infect Dis. 2009 Sep 15;200(6):841-8.

[AUG 19] [Commentary: Influenza Vaccine Manufacture: Keeping Up with Change](#)

Neuzil KM, Bright RA. Influenza vaccine manufacture: keeping up with change. J Infect Dis. 2009 Sep 15;200(6):835-7.

- [AUG 19] [Swine influenza \(H1N1\) pandemic: developing countries' perspective](#)
Khan SI, Akbar SM, Hossain ST, Mahtab MA. Swine influenza (H1N1) pandemic: developing countries' perspective. Rural Remote Health. 2009 Jul-Sep;9(3):1262.

Business Resources

Harvard Health Publications

- [ARCHIVED] [Business Preparedness for Pandemic: Executive Briefing for Corporate and Governmental Decision-makers](#)
- [ARCHIVED] [Link to report from U.S. Government Accountability Office re Pandemic Planning and funding](#)

Canadian Business

- [ARCHIVED] [H1N1 virus: A Plan for the Worst](#)

Consumer Health Information Resources

- [ARCHIVED] [Krames Patient Education Handouts - H1N1 Flu Virus](#)
- [ARCHIVED] [MEDLINEplus - H1N1 Flu \(Swine Flu\)](#)
- [ARCHIVED] [Specialized Information Service - National Library of Medicine](#)
- [ARCHIVED] [Tufts University - \(SPIRAL\) Selected Patient Information in Asian Languages](#)

Clinical and Public Health Practice Tools

- [AUG 18] [Infectious Disease Outbreaks: Tools and Strategies for Front-line Clinicians](#)
Created in consultation with front-line clinicians and infectious disease experts from across Canada, this course is evidence-based and focuses on the coordination between clinical care, public health and the laboratory.
- [JUNE 15] [Algorithms from 18 US States to Assist in Decisions Regarding Testing and Treatment of H1N1](#)

Historical Resources

- [AUG 17] [A comparative study of the 1918-1920 influenza pandemic in Japan, USA and UK: mortality impact and implications for pandemic planning.](#)
Richard SA, Sugaya N, Simonsen L, Miller MA, Viboud C. Epidemiol Infect. 2009 Aug;137(8):1062-72.

- [JUN 30] [Swine flu of 1976: lessons from the past. An interview with Dr Harvey V Fineberg](#)
Fineberg HV. Swine flu of 1976: lessons from the past. An interview with Dr Harvey V Fineberg. Bull World Health Organ. 2009 Jun;87(6):414-5.
- [JUN 29] [The Persistent Legacy of the 1918 Influenza Virus. New England Journal of Medicine.](#)
Morens DM, Taubenberger JK, Fauci AS. The persistent legacy of the 1918 influenza virus. N Engl J Med. 2009 Jul 16;361(3):225-9. Epub 2009 Jun 29.
- [JUN 29] [Historical Perspective — Emergence of Influenza A \(H1N1\) Viruses. New England Journal of Medicine](#)
Zimmer SM, Burke DS. Historical perspective--Emergence of influenza A (H1N1) viruses. N Engl J Med. 2009 Jul 16;361(3):279-85. Epub 2009 Jun 29.
- [ARCHIVED] [Nonpharmaceutical Interventions Implemented by US Cities During the 1918-1919 Influenza Pandemic](#)
Markel H, Lipman HB, Navarro JA, et al. Nonpharmaceutical Interventions Implemented by US Cities During the 1918-1919 Influenza Pandemic. JAMA. 2007;298(6):644-654.
- [ARCHIVED] [The Swine Flu Affair: Decision-Making on a Slippery Disease](#)
Neustadt RE, Fineberg HV. The Swine Flu Affair: Decision-Making on a Slippery Disease. Washington: US Department of Health, Education, and Welfare; 1978. Online book.

Travel Advisories

- [MAY 19] [Public Health Agency of Canada no longer recommends Canadians postpone elective or non-essential travel to Mexico](#)