

pH1N1 Flu Virus (Human Swine Influenza) Information Resources

Current as of April 16, 2010 at 12 pm

Contents

[Events](#)

Updates by Jurisdiction

[Lessons Learned](#)

Ontario

[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 \(CDC\)](#)

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

[United Kingdom](#)

[Europe](#)

[Australia and New Zealand](#)

International

[Pan American Health Organization \(PAHO\)](#)

[World Health Organization \(WHO\)](#)

Other Resources

[Research Articles](#)

Events

Current / Upcoming

[JUN 21-22] [H1N1: The world responds to a 21st century pandemic](#) (London, UK)
This international conference will bring together scientists, academics and public health professionals to examine what we have learned since the appearance of H1N1 in April 2009, and the knowledge gained from the global effort can be used in preparing for future pandemic response.

Archived

[ARCHIVED] "H1N1 and Pregnancy: Key Considerations for Vaccination and Management": Online learning program for health professionals

To access the program, go to:

www.mdBriefCase.com (for physicians)

www.rxBriefCase.com (for pharmacists)

www.AdvancingIn.com (for nurses and other healthcare professionals)

[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

Lessons Learned: Jurisdictional Scan

See [World Health Organization \(WHO\)](#) for details on the expert review of the WHO pandemic response

[Public health and faith-based organizations partner to offer food and vaccine to the homeless](#) (SC, CA, FL)

Describes several efforts to provide homeless and low-income people with access to H1N1 vaccine.

[New York Times: What We Learned From H1N1's First Year](#)

Op-ed from Richard P. Wenzel, professor of internal medicine and a specialist in infectious diseases at Virginia Commonwealth University.

Medpage Today: [American Academy of Neurology study show Guillain-Barré Reports Rare After H1N1 Vaccination](#)

Ministry of Health and Long-Term Care (MOHLTC)

Important Health Notice (Volume 7, Issue 2): [Information for Health Care Professionals: Pandemic \(H1N1\) 2009 Update](#)

- Ontario has been experiencing very low levels of influenza activity since the beginning of January.

- The pH1N1 vaccine expiry date has changed, watch for more information from your Health Unit.
- A second dose of pH1N1 vaccine is no longer needed for particular groups of children.
- The Ministry Emergency Operations Centre has transitioned to Recovery status.
- The ministry has initiated the retrieval of antivirals supplied to pharmacies and other locations from the provincial stockpile. In addition, the provincial stockpile of supplies and equipment has been closed. Health care providers are asked to revert to normal supply practices.
- pH1N1 guidance documents are no longer in effect. Health care providers should refer to the Routine Practice and Additional Precautions in all Health Care Settings document from the Provincial Infectious Diseases Advisory Committee.

[Ontario Influenza Bulletin](#) (Week 13: Mar 28-Apr 3)

- Influenza activity in Ontario was similar compared to the previous reporting period (Mar. 21 to Mar. 27, 2010).
- Fewer patients reporting influenza-like symptoms consulted sentinel physicians during this week than during last week.
- The rate of influenza-like illness (ILI) in patients seen by sentinel physicians is lower than what is expected based on the average rate at this time of year for past seasons.
- No health units reported localized influenza activity for the current reporting period. One health unit reported sporadic influenza activity and 30 reported no influenza activity. The remaining five health units did not report.
- Between April 1, 2009 and March 13, 2010, there were 8,759 laboratory confirmed cases of H1N1 flu virus reported in Ontario, through the integrated Public Health System (iPHIS).

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

Ontario Agency for Health Protection and Promotion (OAHPP)

No items of interest this week.

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

Public Health Agency of Canada (PHAC)

[Potency decline shrinks expiration date for Canada's vaccine](#)

Canada has shortened the expiration date on its adjuvanted H1N1 vaccine from 18 to 6 months, due to nonsafety-related declines in H1N1 antigen in some lots. Subsequent testing of the GlaxoSmithKline vaccine detected the potency issue, which has also been found in some US vaccine lots. Health officials assured the public that vaccines already administered provide sufficient protection. Relabeling guidance, expected soon, won't affect the unadjuvanted vaccine that Glaxo produced for Canada.

Travel Health Notice: [Public Health Agency of Canada: Global H1N1 flu virus](#)

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

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

[2009 H1N1 Flu U.S. Situation Update](#) (Apr 16)

- As of April 16, 2010, the Aggregate Hospitalizations and Deaths Reporting Activity (AHDRA) has concluded for the 2009-2010 flu season.
- The AHDRA surveillance system was created specifically in response to the 2009 H1N1 pandemic, and the system will be maintained for quick implementation in the event of another flu pandemic.
- CDC will continue to track hospitalizations and deaths through its traditional seasonal flu surveillance systems during the 2010-2011 season.
- Pneumonia and influenza-related deaths in adults and children will be tracked through the 122 Cities Mortality Reporting System.
- Laboratory confirmed, flu-related deaths in children will continue to be tracked through the Influenza-associated Pediatric Mortality Surveillance system. Laboratory confirmed, flu-related hospitalizations in adults and children will be tracked through the Emerging Infections Program (EIP).

[UPDATE: Weekly FluView Map and Surveillance Report for Week Ending April 10, 2010](#)

During week 14 (April 4-10, 2010), influenza activity decreased in the U.S. 52 (2.7%) specimens tested by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories and reported to CDC/Influenza Division were positive for influenza.

[CDC publishes pediatric flu guide for hospitals](#) (Apr 14)

The US Centers for Disease Control and Prevention (CDC) recently released a guide to coordinating pediatric care during a flu pandemic. The guide is based on a stakeholders meeting held in September. The book covers topics such as liaisons between hospitals, surge capacity assessment, alternate staffing, and triage, targeting both children's and general hospitals.

[UPDATE: 2009 H1N1 Flu International Situation Update](#) (Apr 9)

This report provides an update to the international situation as of April 9, 2010. The World Health Organization (WHO) continues to report updated 2009 H1N1 flu-associated laboratory-confirmed cases and deaths on its Web page.

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

US Center for Infectious Disease Research and Policy

[Study: Primary care reports accurately show flu spread](#) (Apr 15)

Researchers in Singapore established a network of primary care clinics that submitted daily forms about their cases of influenza-like illness (ILI), defined as acute respiratory illness with a fever of 100 degrees Fahrenheit or more. They started tracking in June 2009 and determined that primary-care ILI reports accurately showed the progress of the H1N1 pandemic, including its peak. They conclude that such a simple tool may be particularly useful for tracking flu waves in developing countries.

[Severe H1N1 cases may put kidneys at risk](#) (Apr 15)

Patients severely ill with pandemic H1N1 infections can have kidney injury or failure, though usually the conditions are reversible, Canadian researchers reported yesterday at a National Kidney Foundation (NKF) meeting in Orlando. In a study of critically ill patients from seven Manitoba

hospitals, two-thirds had the conditions, and those with kidney failure were 11 times more likely to die. They said the findings are a reminder to avoid dehydration and substances that could hurt kidneys.

[Technique could streamline testing for flu exposure](#) (Apr 15)

Mexican researchers have developed a virus-free ELISA method to detect exposure to the pandemic H1N1 virus, according to a Public Library of Science ONE (PLoS ONE) study. The immunoassay is based on a recombinant fraction of hemagglutinin of the virus expressed in *Escherichia coli*. They write that the technique could better help determine a population's disease burden, especially when lab supplies are limited, and help gauge virus exposure when vaccine supplies are scarce.

[Official: Online activities hampered flu messaging](#) (Apr 14)

In comments to a panel reviewing the World Health Organization's (WHO's) pandemic response, Keiji Fukuda, MD, special influenza adviser to the director-general, said that the Internet and social networking sites complicated the WHO's flu messages, Agence France-Presse (AFP) reported today. He said online tools sped the flow of flu news, but they also fueled speculation and misinformation that disrupted vaccination efforts. Communications is one of five core topics the review will cover.

[College flu activity drops to lowest level since summer](#) (Apr 14)

Flu activity at US colleges dropped to its lowest level since August, when surveillance began, the American College Health Association (ACHA) said today. The increases seen in southeastern states in February and March are also easing. The attack rate last week was 1 case per 10,000 students, a decrease of 38% from the previous week. No hospitalizations or deaths were reported, and the ACHA saw no evidence of sustained transmission. Vaccine uptake held at 8%, where it has been for several weeks.

[Namibia reports first pandemic flu case](#) (Apr 14)

A laboratory in Namibia recent confirmed the country's first pandemic H1N1 case, a patient who had traveled with a group to Thailand, the Namibian reported. The illness is also suspected in a second patient who was with the group. Namibia's health minister expressed disappointment that the finding was first reported in the media before the case was reported to health officials. The country expects to launch its vaccine campaign in May with 220,000 doses from the WHO.

[Blood sampling shows low H1N1 infection rate in Singapore](#) (Apr 13)

About one in every eight residents of Singapore became infected with novel H1N1 influenza during the 2009 pandemic's main wave there, according to blood sampling done as the outbreak proceeded, with higher infection rates among members of the military and much lower ones among healthcare workers. Writing in tomorrow's *Journal of the American Medical Association (JAMA)*, public health and academic experts from Singapore and Australia say the low average rate of 13% seroconversion means that "most of the adult population likely remained susceptible" after the pandemic wave passed, and therefore would be vulnerable to the flu's return.

[European conference offers findings on H1N1](#) (Apr 13)

A variety of new findings concerning diagnostic issues and other aspects of pandemic H1N1 influenza were among the hundreds of studies presented at the 20th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), which concluded today in Vienna, Austria.

[Tamiflu resistance appears in immunocompromised patients](#) (Apr 9)

The first cluster of oseltamivir-resistant H1N1 flu in 10 patients in Scotland appeared in a small group who were immunocompromised and persistently shed flu virus, leading to a longer-than-normal course of antivirals. The distinctive resistance mutation was limited to that group out of

1,608 who were hospitalized and did not spread beyond them. The researchers recommend that patients likely to develop resistance be monitored and they and their household contacts vaccinated when possible.

[No adverse effects to flu antivirals in pregnancy \(Apr 9\)](#)

Researchers from the University of Texas Southwest Medical Center report that neither oseltamivir nor amantadine/rimantadine caused any adverse events in pregnant women treated at the medical center during the H1N1 flu pandemic. The 104 women given amantadine or rimantadine and the 135 women given oseltamivir had the same rates of preterm birth, premature rupture of membranes, gestational diabetes, and preeclampsia as the 82,097 women who did not receive antivirals.

[Rare, severe cases of H1N1 and strep co-infection \(Apr 9\)](#)

Of 8,075 patients hospitalized for H1N1 pandemic flu in California in 2009, 10 suffered severe effects from co-infection with invasive group A Streptococcus (*S pyogenes*). Eight needed mechanical ventilation, and 7 died. Three belonged to one family. *S pneumococcus* and *Staphylococcus aureus* have been reported with pandemic and seasonal flu, but group A strep is rare. Physicians should watch for flu complications and be sure to draw blood first and then administer antibiotics quickly.

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

United Kingdom

Due to low influenza activity the National Influenza Report will be published fortnightly, with a short summary of activity provided in alternate weeks. Should activity increase again the report will return to a weekly schedule.

[Pandemic H1N1 \(2009\) Influenza: Chief Medical Officer's Statistical Update](#)

- New cases of pandemic H1N1 (2009) influenza in communities in England remain at around their lowest level since the disease first appeared in the United Kingdom.
- There have been 17 more confirmed deaths in England attributable to pandemic H1N1 (2009) influenza since our last update taking the total number to 359. This reflects progress with the process of validating previously reported deaths. The total number of deaths across the UK as a whole is 474.
- As of 28 March 2010, 4.88 million doses of the pandemic H1N1 (2009) influenza vaccine have been provided to those in priority groups in England. As of 4 April 2010, 407,000 doses have been provided to front line health care workers in England.

[Health Protection Agency: Weekly Epidemiological Update \(Apr 15, Week 15\)](#)

- Pandemic influenza activity is very low across the UK.
- In week 14 (ending 11 April), the weekly influenza/influenza-like illness (ILI) consultation rate decreased or remained stable in England, Wales and Northern Ireland and increased slightly in Scotland. All consultation rates are well below baseline levels.
- The number of respiratory syncytial virus (RSV) detections is low and decreasing, and GP consultation rates for acute bronchitis are at low levels.
- There have been very few pandemic (H1N1) 2009 viruses detected through non-sentinel surveillance in recent weeks and no sentinel detections since week 11 (ending 14 March). Few influenza H1 (non-pandemic), H3 and B viruses have been detected in the 2009/10 season.
- Forty of 6,124 pandemic viruses tested have been confirmed to carry a mutation which confers resistance to the antiviral drug oseltamivir; fifteen have been tested and confirmed to be phenotypically resistant to the drug but retain sensitivity to zanamivir.

- Very few pandemic influenza cases have been reported as admitted to hospital in recent weeks. There have been 457 deaths reported due to pandemic (H1N1) 2009 in the UK.
- The UK pandemic influenza vaccination programme continues for people at high risk for severe disease, health-care workers and healthy children aged between 6 months and 5 years. For further information see the [Department of Health website](#).

[ARCHIVED] [Health Protection Agency swine influenza page](#)

[ARCHIVED] [Department of Health pandemic flu site](#)

Europe

[ECDC Weekly Influenza Surveillance Overview \(16 Apr 2010\)](#)

- All 24 reporting countries experienced low intensity of influenza activity for the sixth consecutive week.
- All countries reported no or sporadic activity, except for Italy who reported local activity.
- Of the 40 influenza viruses detected from sentinel and non-sentinel sources, 27 (68%) were influenza type B viruses.
- The number of reported SARI cases continued to decline. Only eight SARI cases were reported during week 14/2010.
- Even though, globally, the world remains in pandemic Phase 6, influenza activity caused by the 2009 pandemic influenza A(H1N1) virus is well past its winter peak in EU/EEA countries. However, transmission associated with sporadic cases continues to occur whilst most cases of influenza-like illness in EU/EEA countries are not due to influenza virus infection.

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

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

Australia and New Zealand

Australia: [Influenza Surveillance Report No.10 for the week ending 2010 Apr 2](#)

- In 2010, as at 2 April, there have been 57 confirmed cases of pandemic (H1N1) 2009 influenza reported in Australia, bringing the total of confirmed cases to 37,693 since May 2009. In addition, there have been 233 reported cases of influenza type A not sub-typed and 35 cases of influenza type B.
- From 1 January to 30 March 2010, there have been 14 hospitalisations and 0 deaths associated with pandemic (H1N1) 2009 influenza, as reported by jurisdictions.
- While there is influenza-like illness (ILI) in the community, levels remain relatively low and reporting from laboratories indicates that little of this ILI is due to influenza. NSW have reported that respiratory syncytial virus (RSV) was the most common respiratory virus diagnosed by sentinel laboratories in March 2010.

NZ: [Pandemic Influenza H1N1 2009 \(swine flu\) – Update 180](#)

- The overall level of influenza activity in New Zealand continues to be low, with some local variation, as would be expected at this time of year.
- The number of people visiting a GP with influenza-like illness continues to remain below baseline levels.
- The number of people calling Healthline (0800 611 116) for advice relating to influenza is relatively stable.
- Primary care report there has been strong demand for seasonal influenza vaccine, and immunisation rates are higher than they were at this time last year.

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

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

Pan-American Health Organization (PAHO)

No items of interest this week.

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

World Health Organization (WHO)

[Pandemic \(H1N1\) 2009 - update 96](#) (Apr 16)

As of 11 April 2010, worldwide more than 214 countries and overseas territories or communities have reported laboratory confirmed cases of pandemic influenza H1N1 2009, including over 17798 deaths.

[Experts begin their assessment of the response to the H1N1 influenza pandemic](#)
(Apr 12)

[WHO: How will the global response to the pandemic H1N1 be reviewed?](#) (Apr 12)

[External review of pandemic response - members of the review committee](#) (Apr 12)

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

[ARCHIVED] [Older WHO Updates](#)

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)

[Zinc Intake and Resistance to H1N1 Influenza*](#)

Sandstead HH, Prasad AS. Am J Public Health. Published online ahead of print 2010 Apr 15.

[Seasonal Synchronization of Influenza in the United States Older Adult Population](#)

Wenger JB, Naumova EN. PLoS ONE. 2010;5(4):e10187. doi:10.1371/journal.pone.0010187

[Update: Influenza Activity --- United States, August 30, 2009--March 27, 2010, and Composition of the 2010--11 Influenza Vaccine](#)

Centers for Disease Control and Prevention. Morbid Mortal Weekly Rep. April 16, 2010;59(14): 423-430.

[Rapid Selection of Oseltamivir- and Peramivir-Resistant Pandemic H1N1 Virus during Therapy in 2 Immunocompromised Hosts*](#)

Memoli MJ, Hrabal RJ, Hassantoufighi A, Eichelberger MC, Taubenberger JK. Clin Infect Dis. Published online ahead of print 2010 March 26.

[Surveillance épidémiologique de la grippe A\(H1N1\) 2009 dans les armées françaises : adaptation des systèmes de surveillance au contexte pandémique*](#)

Mayet A, Pommier de Santi V, Manet G, et al. Médecine et Maladies Infectieuses. Published online ahead of print 2010 Apr 9.

[Long-term immunogenicity of influenza vaccine among the elderly: Risk factors for poor immune response and persistence*](#)

Song JY, Cheong HJ, Hwang IS, et al. Vaccine. Published online ahead of print 2010 Apr 13.

Letter: [Variation in Critical Care Beds Per Capita in the United States: Implications for Pandemic and Disaster Planning*](#)

Carr BG, Addyson DK, Kahn JM. JAMA. 2010 Apr 14;303(14):1371-1372.

[Specific Recognition of Influenza A/H1N1/2009 Antibodies in Human Serum: A Simple Virus-Free ELISA Method](#)

Alvarez MM, López-Pacheco F, Aguilar-Yañez JM, Portillo-Lara R, Mendoza-Ochoa GI, et al. PLoS ONE. 2010;5(4):e10176. doi:10.1371/journal.pone.0010176

[Real-Time Epidemic Monitoring and Forecasting of H1N1-2009 Using Influenza-Like Illness from General Practice and Family Doctor Clinics in Singapore](#)

Ong JBS, Chen MI-C, Cook AR, Lee HC, Lee VJ, et al. PLoS ONE. 2010;5(4): e10036. doi: 10.1371/journal.pone.0010036

News: [Department of Health agrees deal with GSK to cancel part of swine flu vaccine order*](#)

Mayor S. BMJ 2010;340:c1946. Published 2010 Apr 9. doi:10.1136/bmj.c1946

[Cardiac tamponade and heart failure due to myopericarditis as a presentation of infection with the pandemic H1N1 2009 influenza A virus*](#)

Puzelli S, Buonaguro FM, Facchini M, et al. J Clin Microbiol. 2010 Apr 14. [Epub ahead of print]

[Clinical features of H1N1 2009 infection in critically ill immunocompromised patients*](#)

Camous L, Lemiale V, Canet E, Max A, Schnell D, Le Goff J, Rabbat A, Schlemmer B, Azoulay E. Crit Care. 2010 Apr 14;14(2):139. [Epub ahead of print]

[The essentiality of alpha-2-macroglobulin in human salivary innate immunity against new H1N1 swine origin influenza A virus*](#)

Chen CH, Zhang XQ, Lo CW, Liu PF, Liu YT, Gallo RL, Hsieh MF, Schooley RT, Huang CM. Proteomics. 2010 Apr 13. [Epub ahead of print]

[Influenza and Cardiovascular Disease: Does Swine-Origin, 2009 H1N1 Flu Virus Represent a Risk Factor, an Acute Trigger, or Both?*](#)

Lippi G, Franchini M, Favaloro EJ. Semin Thromb Hemost. 2010 Feb;36(1):49-58. Epub 2010 Apr 13.

[All Health is Local: The H1N1 Vaccine*](#)

Ratzan SC. J Health Commun. 2010 Jan;15(1):1-2. No abstract available.

[Clinical and epidemiological characteristics of the hospitalised patients due to pandemic H1N1 2009 viral infection: experience at Hutt Hospital, New Zealand*](#)

Dee S, Jayathissa S. N Z Med J. 2010 Apr 9;123(1312):45-53.

[Pandemic influenza: antiviral preparedness and health care workers*](#)

Schneider RB, Benitez JG, D'Angelo A, Tyo K. Disaster Med Public Health Prep. 2010 Mar;4(1):55-61.

[Which health care workers were most affected during the spring 2009 H1N1 pandemic?*](#)

Santos CD, Bristow RB, Vorenkamp JV. Disaster Med Public Health Prep. 2010 Mar;4(1):47-54.

[Faceoff: Cuba vs. H1N1 influenza*](#)

Reed G. MEICC REV. 2010 Winter;12(1):6-12. No abstract available.

[2009 influenza A\(H1N1\) seroconversion rates and risk factors among distinct adult cohorts in Singapore*](#)

Chen MIC, Lee VJM, Lim WY, et al. JAMA. 2010;303(14):1383-1391.

[Prophylactic and therapeutic efficacy of avian antibodies against influenza virus H5N1 and H1N1 in mice](#)

Nguyen HH, Tumpey TM, Park H-J, Byun Y-H, Tran LD, et al. 2010 Prophylactic and Therapeutic Efficacy of Avian Antibodies Against Influenza Virus H5N1 and H1N1 in Mice. PLoS ONE 5(4): e10152. doi:10.1371/journal.pone.0010152

[Detection of the rapid emergence of the H275Y mutation associated with oseltamivir resistance in severe pandemic influenza virus A/H1N1 09 infections*](#)

Wang B, Dwyer D, Blyth C, et al. Antiviral Res. Published online ahead of print 2010 April 10.

[Mixed infections of pandemic H1N1 and seasonal H3N2 viruses in 1 outbreak*](#)

Liu W, Li ZD, Tang F. Clin Infect Dis. Published online ahead of print 2010 April 9.

[Clinical and epidemiological characteristics of the hospitalised patients due to pandemic H1N1 2009 viral infection: experience at Hutt Hospital, New Zealand*](#)

Dee S, Jayathissa S. Journal of the New Zealand Medical Association, 2010 Apr 9. 123(1312).

[Law, ethics and pandemic preparedness: the importance of cross-jurisdictional and cross-cultural perspectives*](#)

Bennett B, Carney T. Aust N Z J Public Health. 2010 Apr 8; 34(2):106-112.

[Modelling strategic use of the national antiviral stockpile during the CONTAIN and SUSTAIN phases of an Australian pandemic influenza response*](#)

McVernon J, McCaw JM, Nolan TM. Aust N Z J Public Health. 2010 Apr 8;34(2):113-119.

[Invasive group A streptococcal infection concurrent with 2009 H1N1 influenza*](#)

Jean C, Louie JK, Glaser CA. Clin Infect Dis. Published online ahead of print 2010 April 8.

[The emergence of oseltamivir-resistant pandemic influenza A\(H1N1\) 2009 virus amongst hospitalised immunocompromised patients in Scotland, November-December 2009](#)

Harvala H, Gunson R, Simmonds P, et al. Euro Surveill. 2010;15(14):pii=19536.

[Maternal and neonatal outcomes after antepartum treatment of influenza with antiviral medications*](#)

Greer LG, Sheffield JS, Rogers VL, et al. Obstetrics & Gynecology. 2010 Apr;115(4):711-716. doi: 10.1097/AOG.0b013e3181d44752

[Association between the 2008-09 Seasonal Influenza Vaccine and Pandemic H1N1 Illness during Spring-Summer 2009: Four Observational Studies from Canada](#)

Skowronski DM, De Serres G, Crowcroft NS, Janjua NZ, Boulianne N, Hottes TS, et al. PLoS Med. 2010 Apr 6;7(4):e1000258.

[Does Seasonal Influenza Vaccination Increase the Risk of Illness with the 2009 A/H1N1 Pandemic Virus?](#)

Viboud C, Simonsen L. PLoS Med. 2010 Apr 6;7(4):e1000259. No abstract available.

[Utility of Influenza Vaccination for Oncology Patients*](#)

Pollyea DA, Brown JM, Horning SJ. J Clin Oncol. 2010 Apr 12. [Epub ahead of print]

[Detection of the rapid emergence of the H275Y mutation associated with oseltamivir resistance in severe pandemic influenza virus A/H1N1 09 infections*](#)

Wang B, Dwyer DE, Blyth CC, Soedjono M, Shi H, Kesson A, Ratnamohan M, McPhie K, Cunningham AL, Saksena NK. Antiviral Res. 2010 Apr 9. [Epub ahead of print]

[Diagnostic accuracy of bedside antigen tests to correctly diagnose new Influenza A/H1N1v Infection*](#)

Bellmann-Weiler R, Beikircher B, Kurz K, Theurl I, Weiss G. Clin Microbiol Infect. 2010 Apr 6. [Epub ahead of print]

[\[Influence of novel influenza pandemic in 2009 on mental state of workers at local public hospital: an investigation using questionnaire\]*](#)

Imai H, Ito A, Matsuishi K, Kitamura N, Mita T. Seishin Shinkeigaku Zasshi. 2010;112(2):111-5. Japanese. No abstract available.

[\[Mathematical Modeling of the Novel Influenza A \(H1N1\) Virus and Evaluation of the Epidemic Response Strategies in the Republic of Korea.\]*](#)

Suh M, Lee J, Chi HJ, Kim YK, Kang DY, Hur NW, Ha KH, Lee DH, Kim CS. J Prev Med Public Health. 2010 Mar;43(2):109-16. Korean.

[\[The evaluation of policies on 2009 influenza pandemic in Korea.\]*](#)

Choi WS, Kim WJ, Cheong HJ. J Prev Med Public Health. 2010 Mar;43(2):105-8. Korean.

[\[National Level Response to Pandemic \(H1N1\) 2009.\]*](#)

Lee DH, Shin SS, Jun BY, Lee JK. J Prev Med Public Health. 2010 Mar;43(2):99-104. Korean.

[Optimal control for pandemic influenza: The role of limited antiviral treatment and isolation*](#)

Lee S, Chowell G, Castillo-Chávez C. J Theor Biol. 2010 Apr 8. [Epub ahead of print]

[Detection of pandemic \(H1N1\) 2009 influenza virus by allele discrimination*](#)

Chiou CC, Chen TL, Tsao KC, Shih SR, Huang CG, Huang YL, Chang CM. Clin Chim Acta. 2010 Apr 8. [Epub ahead of print]

[\[A\(H1N1\) influenza surveillance in the french armed forces: Adapting the surveillance systems to the pandemic setting.\]*](#)

Mayet A, Santi VP, Manet G, Nivoix P, Ligier C, Faure N, et al. Med Mal Infect. 2010 Apr 8. [Epub ahead of print] French.

[Visual Detection of Pandemic Influenza A H1N1 Virus 2009 by Reverse Transcription Loop-Mediated Isothermal Amplification with Hydroxynaphthol Blue Dye*](#)

Ma XJ, Shu YL, Nie K, Wang MQ, Gao RB, Wang M, Wen LY, Han F, Zhou SM, Zhao X, Cheng YH, Li DX, Dong XP. J Virol Methods. 2010 Apr 6. [Epub ahead of print]

[Central European Vaccination Advisory Group \(CEVAG\) guidance statement on recommendations for 2009 pandemic influenza A\(H1N1\) vaccination*](#)

Chlibek R, Anca I, André F, Bakir M, Ivaskeviciene I, Mangarov A, et al. Vaccine. 2010 Apr 6. [Epub ahead of print]

[Mixed Infections of Pandemic H1N1 and Seasonal H3N2 Viruses in 1 Outbreak*](#)

Liu W, Li ZD, Tang F, Wei MT, Tong YG, Zhang L, et al. Clin Infect Dis. 2010 Apr 9. [Epub ahead of print]

[Modelling the Transmission Dynamics and Control of the Novel 2009 Swine Influenza \(H1N1\) Pandemic*](#)

Sharomi O, Podder CN, Gumel AB, Mahmud SM, Rubinstein E. Bull Math Biol. 2010 Apr 9. [Epub ahead of print]

[Immunogenicity and Safety of Intradermal Influenza Vaccination in Healthy Older Adults*](#)

Chi RC, Rock MT, Neuzil KM. Clin Infect Dis. 2010 Apr 8. [Epub ahead of print]

[Invasive Group A Streptococcal Infection Concurrent with 2009 H1N1 Influenza*](#)

Jean C, Louie JK, Glaser CA, Harriman K, Hacker JK, Aranki F, Bancroft E, Farley S, Ginsberg M, Hernandez LB, Salleneve CS, Radner AB. Clin Infect Dis. 2010 Apr 8. [Epub ahead of print]

Letter: [Comparison of adult patients hospitalised with pandemic \(H1N1\) 2009 influenza and seasonal influenza during the "PROTECT" phase of the pandemic response](#)

Dalton CB, Cretikos MA, Durrheim DN, Seppelt IM, Rawlinson WD, Dwyer DE. Med J Aust. 2010 Mar 15;192(6):357-8; author reply 357. No abstract available.