

pH1N1 Flu Virus (Human Swine Influenza) Information Resources

Current as of March 5, 2010 at 12 pm

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

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Events

Current / Upcoming

[ONGOING] "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

[FEB 17] **GLOBAL HEALTH HISTORIES: Emerging issues of global public health importance: SARS: Learning from an Epidemic of Fear**
Wednesday, February 17, 2010 | 12:30 PM - 2:30 PM CET

Space is limited. Reserve your Webinar seat now at:

<https://www1.gotomeeting.com/register/557707489>

In the opening presentation of this new seminar series, health psychologist Professor George Bishop describes his studies of how ordinary people respond to illness threats. He focuses particularly on the impact of SARS in Singapore, public responses to the epidemic, and the lessons learned. Dr Cathy Roth, a WHO expert on the disease, explains the role of WHO in leading the struggle to contain this unprecedented threat.

[FEB 3-5] [International Symposium on Neglected Influenza Viruses](#)

[DEC 16] Topic: A Special Flu.Gov Webcast for Health Care Providers
Join experts from the U.S. Department of Health and Human Services and the former president of the American Medical Association answer your questions about the H1N1 virus and vaccine. Hosted by the U.S. Department of Health and Human Services, **the show airs live** on www.flu.gov.

[NOV 30] Webcast: [Planning for a Pandemic - Can History Inform Action?](#)

[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

Lessons Learned

Jurisdictional Scan

No items of interest this week.

Literature

[Pandemic influenza in Canadian children: A summary of hospitalized pediatric cases](#)

Bettinger JA et al. Vaccine. Published online ahead of print 2010 Feb 26.

[Determinants of influenza immunization uptake in Canadian youths](#)

Li Z, Doan Q, Dobson S. Vaccine. Published online ahead of print 2010 Mar 1.

[Effects of Early Oseltamivir Therapy on Viral Shedding in 2009 Pandemic Influenza A \(H1N1\) Virus Infection](#) *

Li M. Ling, Angela L. Chow, David C. Lye, Adriana S. Tan, Prabha Krishnan, Lin Cui, Nwe N. Win, Monica Chan, Poh L. Lim, Cheng C. Lee, and Yee S. Leo. Clinical Infectious Diseases 2010 April 1.

Letter: [Estimating the Impact of the 2009 Influenza A \(H1N1\) Pandemic on Mortality in the Elderly in Navarre, Spain](#)

L. Jossieran and A. Fouillet. Eurosurveillance 2010 March 04.

Author's Reply: [Estimating the Impact of the 2009 Influenza A \(H1N1\) Pandemic on Mortality in the Elderly in Navarre, Spain](#)

J Castilla and J. Etxeberria. Eurosurveillance 2010 March 04.

Letters: [Seasonal vaccine effectiveness against pandemic A/H1N1](#) *

Naveed Z Janjua, Danuta M Skowronski, Travis S Hottes, Gaston De Serres, Natasha S Crowcroft, Laura C Rosella. The Lancet 2010 March 06.

Author's Reply: [Seasonal vaccine effectiveness against pandemic A/H1N1 – Authors' reply](#)*

Santiago Echevarría-Zuno, Juan Manuel Mejía-Aranguré, Concepción Grajales-Muñiz, Cesar Gonzalez-Bonilla, Víctor Hugo Borja-Aburto. The Lancet 2010 March 06.

[Vaccination against pandemic influenza A/H1N1v in England: A real-time economic evaluation](#) *

Marc Baguelin, Albert Jan Van Hoek, Mark Jit, Stefan Flasche, Peter J. White and W. John Edmunds. Vaccine 2010 March 11.

[Surveillance Lessons from First-wave Pandemic \(H1N1\) 2009, Northern California, USA](#)

Roger Baxter Emerging Infectious Diseases March 2010

[School Closure and Mitigation of Pandemic \(H1N1\) 2009, Hong Kong](#)

J.T. Wu et al. Emerging Infectious Diseases 2010 March.

Ministry of Health and Long-Term Care (MOHLTC)

[Ontario Influenza Bulletin \(Week 7: Feb 14–20\)](#)

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

Important Health Notices / Avis de santé important

No IHNs related to H1N1 since Nov 13, 2009.

Ontario Agency for Health Protection and Promotion (OAHPP)

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

Public Health Agency of Canada (PHAC)

PHAC will no longer be producing a weekly report of deaths associated with the H1N1 flu virus. This information will now be captured in the weekly FluWatch report.

No items of interest this week.

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

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

[UPDATE: Weekly FluView Map and Surveillance Report for Week Ending February 27, 2010](#)

During week 8 (February 21-27, 2010), influenza activity remained at approximately the same levels as last week in the U.S. 263 (6.4%) 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.

[UPDATE: Influenza and Pneumonia-Associated Hospitalizations and Deaths from August 30, 2009 to February 27, 2010](#)

FluView reports that for the week of February 21 - February 27, 2010, flu activity in the United States was relatively low, with most flu continuing to be caused by 2009 H1N1. Flu activity, caused by either 2009 H1N1 or seasonal flu viruses, may rise and fall, but is expected to continue for weeks. It's possible that the United States could experience another wave of flu activity caused by either 2009 H1N1 or seasonal influenza.

[NEW: CDC Estimates Graphics Section](#)

Graphical representations of CDC's latest estimates for 2009 H1N1 cases, hospitalizations and deaths in the United States, April 2009 - January 16, 2010.

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

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

Other US Sources

No items of interest this week.

Center for Infectious Disease Research and Policy

[H1N1 mutation's proposed link to severe illness debated](#) (Mar 4)

Norwegian scientists today reported a pandemic H1N1 virus mutation that appears to be associated with severe disease, but a leading US flu expert said global data on the mutation don't show a clear connection with severe illness. [Read CIDRAP article...](#)

[Study: One H1N1 clade pushed out others](#) (Mar 4)

A genetic study of pandemic H1N1 viruses by Italian researchers today suggests that several H1N1 clades circulated early in the epidemic but that one clade (clade 7) replaced the others and has predominated through most of the pandemic. The authors concluded, however, that it's not clear whether the shift to a single-clade pattern had a clinical impact or gave the virus a transmissibility advantage. The report appears in *Public Library of Science (PLoS) Currents*. [\[Mar 4 PLoS Currents study\]](#)

[Hong Kong reports flu uptick](#) (Mar 4)

The Hong Kong Centre for Health Protection (CHP) today reported a slight increase in cases of influenza-like illness (ILI). ILI cases increased from 42.8 to 55.1 per 1,000 office visits over the preceding week. The CHP also reported 23 institutional outbreaks, compared with 3 in each of the previous 2 weeks. And the number of respiratory samples that tested positive for flu rose to 85 from 44 the week before. About a fourth of the isolates were pandemic H1N1, and more than 60% were influenza B. [\[Mar 4 CHP report\]](#)

[UK eyes H1N1 vaccine for southbound travelers](#) (Mar 4)

British vaccine advisors are considering advising those traveling to the Southern Hemisphere during its upcoming flu season to receive the pandemic H1N1 vaccine in addition to the seasonal version, *Healthcare Republic*, a UK-based publication, reported today. The Southern Hemisphere's flu season typically runs from May through October. The Department of Health said it is exploring ways to implement the flu vaccine advice. [\[Mar 4 Healthcare Republic story\]](#)

[VA study reports effective flu biosurveillance](#) (Mar 4)

In a study today, the Department of Veterans Affairs reported that it effectively used an electronic biosurveillance system for tracking and monitoring influenza trends. The system, called Electronic Surveillance System for the Early Notification of Community-based Epidemics (ESSENCE), effectively tracked trends for seasonal flu as well as the rise in cases at the start of the H1N1 pandemic. The authors said it could serve as an important alerting tool. [\[Mar 4 PLoS One report\]](#)

[College indicators show no sustained flu wave](#) (Mar 3)

Flu-like illness activity at US colleges decreased slightly last week, and although disease incidence was higher than it was between mid December and mid February, the American College Health Association (ACHA) sees no evidence of a third pandemic wave. The attack rate for the week ending Feb 26 was 3.3 cases per 10,000 students, down 20% from the previous week. Southeast and Gulf Coast schools showed slight increases in disease activity, with levels still lower than November's. [\[Mar 3 ACHA surveillance report\]](#)

[South Carolina campus sees uptick in cases](#) (Mar 3)

The University of South Carolina in Aiken saw an increase in suspected H1N1 flu cases in February, according to *The State* newspaper in Columbia, S.C. After seeing few flu-like illnesses in January, the campus had 27 cases in February, said Cindy Gelinis, director of the student health

center. Four sick students were tested in late February, and all had the virus. State epidemiologist Dr. Jerry Gibson said another wave of cases is likely if the pandemic follows historical precedents.

[\[Mar 3 State report\]](#)

[Pandemic waning in China](#) (Mar 3)

China's health ministry said the country's H1N1 pandemic has passed its peak, according to Xinhua. The proportion of H1N1 among all flu cases dropped from 36.6% in January to 11.1% in February. The ministry reported that 793 Chinese have died of the illness, including 18 in February. Officials estimated that 30% of the population has immunity to the virus and said a major new wave of cases is unlikely in the near term, but added that localized outbreaks in crowded settings remain possible. [\[Mar 3 Xinhua report\]](#)

[India signs deal for pandemic vaccine](#) (Mar 3)

India's government has signed an agreement with Panacea Biotec, a pharmaceutical company based in New Delhi, to produce pandemic H1N1 vaccine, the company reported today. Panacea has a manufacturing facility in Punjab that can produce 45 million doses a year. Panacea projects that its vaccine, a split-virus, egg-based product, will be available by April for emergency use. India has also signed vaccine agreements with two other companies. [\[Mar 3 Panacea Biotec press release\]](#)

[Brazil prepares H1N1 shot campaign](#) (Mar 2)

The government of Brazil said Monday that it will launch "the largest campaign in the world" to vaccinate its citizens before the Southern Hemisphere flu season. Xinhua reported that the effort aims to give shots to 90 million Brazilians in a tiered campaign: health workers and indigenous citizens first, followed by pregnant women, young children, chronic-disease sufferers and young adults, and then the rest of the population. [\[Mar 2 Xinhua story\]](#)

[Earthquake aftermath halts vaccination in Chile](#) (Mar 2)

Widespread building damage and continuing power-supply interruptions have forced authorities to suspend H1N1 and routine vaccination campaigns in Chile following the Feb 27 8.8-magnitude quake there. New deliveries of H1N1 vaccine from outside the country have been postponed for at least a week, while authorities fear existing vaccine stocks have been ruined by electricity failures that interrupt the cold-chain keeping vaccines potent. [\[Mar 1 Pan American Health Org update\]](#)

[Ireland records almost 1,000 reactions to H1N1 vaccine](#) (Mar 2)

An analysis of complaints to the Irish Medicines Board (IMB) reveals that there have been almost 1,000 reports of adverse reactions to the H1N1 vaccine, the *Irish Times* reported today. Most of the reactions were injection-site swelling, gastrointestinal problems, and flu-like symptoms. In its most recent update, the IMB said it has no mechanism for separating true adverse reactions from coincidental events. [\[Mar 2 Irish Times story\]](#)

[H1N1 could develop drug-resistance patterns of seasonal flu](#) (Mar 2)

If pandemic H1N1 follows the same evolutionary pathway as seasonal H1N1 strains, it will likely develop the resistance to oseltamivir (Tamiflu) that has become widespread in seasonal strains, Ohio State University researchers predict in the *International Journal of Health Geographics*. Reassortment between pandemic and seasonal strains in areas where they co-circulate, such as China, could speed the evolution of resistance, and antiviral use must be judicious, they say. [\[Feb 24 Int J Health Geogr article\]](#)

[Alabama officials cite continuing H1N1](#) (Mar 1)

Pandemic H1N1 flu hasn't ebbed as much as anticipated in Alabama, according to public health officials there. Although frequency was higher in the fall than it is currently, cases are still occurring across the state, and there were three deaths in February, a pattern unlike previous flu epidemics.

The state ran a large school immunization program earlier in the winter, but school absences in the state remain higher than the typical 5%. [\[Mar 1 Tuscaloosa News story\]](#)

[LA County notes uneven vaccine distribution](#) (Mar 1)

Public health data show that the H1N1 influenza vaccine was distributed unevenly across Los Angeles County, with the north and south sides getting disproportionately less, according to an *LA Times* story today. The reason for the disparity primarily lies in the lower number of healthcare providers in those areas, which translates into fewer requests for vaccine, county health officials said. They admitted that some of the efforts to ensure equal access to vaccine failed. [\[Mar 1 LA Times story\]](#)

[Pneumonia worse with H1N1 vs seasonal flu](#) (Mar 1)

Pandemic H1N1 flu virus has the intrinsic ability to cause more severe pneumonia than seasonal H1N1 flu, concludes a study in the *Journal of Infectious Diseases*. This ability is a key measure of a flu virus's pandemic potential. The researchers inoculated ferrets intratracheally--to model influenza pneumonia in humans--with pandemic H1N1, seasonal H1N1, or highly pathogenic H5N1 virus. Pandemic H1N1 caused pneumonia intermediate in severity between the other viruses. [\[Feb 26 JID study abstract\]](#)

[How H1N1 transmits in households](#) (Mar 1)

An April 2009 outbreak of pandemic H1N1 flu in a New York City high school, reported in the *Journal of Infectious Diseases*, had an 11.3% attack rate of flu-like illness among household contacts. Protective factors were older age, antiviral prophylaxis, and having a family discussion of flu. Risk factors in parents included caring for the index patient and, in siblings, watching TV with the patient. Half the secondary illnesses occurred within 3 days of the index patient's illness onset. [\[Feb 25 JID study abstract\]](#)

[Study: 40% of kids with H1N1 otherwise healthy](#) (Mar 1)

Canada's IMPACT monitoring program has reported that, in the first wave of the pandemic (May-August 2009), 324 cases involving hospitalization occurred in the country's children. Of 235 for whom case details were available, 69% were older than 2, with a median age of 4.8; 40% were previously healthy; 50% received antivirals; and two died. The data show the disease course and risk groups affected to be similar to those for seasonal flu but use of antivirals to be higher. [\[Feb 26 Vaccine article\]](#)

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

Health Protection Agency (UK)

[Weekly Epidemiological Update: 04 March 2010 \(Week 9\)](#)

Pandemic influenza activity is low and stable or decreasing across the UK.

[ARCHIVED] [Swine Influenza page](#)

Department of Health (UK)

[Pandemic H1N1 \(2009\) Influenza: Chief Medical Officer's Fortnightly Bulletin for Journalists – March 4, 2010](#)

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

European Centre for Disease Prevention and Control (ECDC)

[ECDC Executive Update: 2009 pandemic influenza A\(H1N1\)](#)

Issue 31: Monday, 22 February 2010

Weekly influenza surveillance overview highlights

- The 2009 influenza A(H1N1) pandemic is well past its winter peak in EU/EEA countries. In seven countries (the majority of which are in Eastern Europe), local or regional transmission of the pandemic virus continues at low to medium intensity.
- Sporadic transmission of the 2009 pandemic influenza virus was reported in the majority of the countries.
- Of the 684 specimens collected by sentinel physicians, 46 (6.7%) were positive for pandemic virus.
- In addition to the pandemic virus, there is currently no evidence of wide circulation of other influenza A viruses. A few influenza B viruses have been detected.
- The number of reported severe acute respiratory infection (SARI) cases also continues to decline. In week 06/2010, of the 20 SARI cases for whom underlying conditions were documented, six (30%) had no known underlying condition.

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

European Union

No items of interest this week.

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

Pan-American Health Organization (PAHO)

As of March 1st:

- In North America, acute respiratory disease activity remained stable and is lower than expected in most areas
- In the Caribbean, Jamaica reported an increasing trend in acute respiratory disease
- Central American countries reported decreasing or unchanged trends in acute respiratory disease, except Panama which reported an increasing trend
- South American countries reported unchanged trends in acute respiratory disease.
- In North America, a median of 87.3% of subtyped influenza A viruses were pandemic (H1N1) 2009
- 55 new confirmed deaths in 4 countries were reported; in total there have been 7,539 cumulative confirmed deaths

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

Australia and New Zealand

[Australia: Influenza Surveillance Report No. 7 for the week ending 19 February 2010 \(PDF\)](#)

[New Zealand: 04 March 2010 Pandemic Influenza H1N1 2009 \(swine flu\) – Update 174](#)

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

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

World Health Organization (WHO)

WHO no longer issues global tables showing the numbers of confirmed cases for all countries. Regular updates describing the situation in the newly affected countries are provided.

[Pandemic H1N1 \(2009\) – Update 90](#)

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

[ARCHIVED] [Older WHO Updates](#)

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)

[Sick at Work: Infected Employees in the Workplace During the H1N1 Pandemic](#)

Drago R, Miller K. Institute for Women's Policy Research Briefing Paper. 2010 Feb; B264.

[Evolutionary pattern of pandemic influenza \(H1N1\) 2009 virus in the late phases of the 2009 pandemic.](#)

Valli MB et al. PLoS Currents Influenza. Published online ahead of print 2010 Mar 4.

[Recommended viruses for influenza vaccines for use in the 2010-2011 northern hemisphere influenza season](#)

World Health Organization. Weekly Epidemiological Record. 2010 Mar 5; 85(5): 81–92.

[Authors' reply: Estimating the impact of the 2009 influenza A\(H1N1\) pandemic on mortality in the elderly in Navarre, Spain](#)

Castilla J, Etxeberria J. Authors' reply: Estimating the impact of the 2009 influenza A(H1N1) pandemic on mortality in the elderly in Navarre, Spain. Euro Surveill. 2010;15(9):pii=19502.

[Effective Detection of the 2009 H1N1 Influenza Pandemic in U.S. Veterans Affairs Medical Centers Using a National Electronic Biosurveillance System](#)

Schirmer P, Lucero C, Oda G, Lopez J, Holodniy M. PLoS ONE. 2010; 5(3): e9533.
doi:10.1371/journal.pone.0009533

[The Shifting Demographic Landscape of Pandemic Influenza](#)

Bansal S, Pourbohloul B, Hupert N, Grenfell B, Meyers LA. PLoS ONE. 2010; 5(2): e9360.
doi:10.1371/journal.pone.0009360

[Household Transmission of 2009 Influenza A \(H1N1\) Virus after a School-Based Outbreak in New York City, April–May 2009](#)

France AM, Jackson M, Schrag S, Lynch M, Zimmerman C, Biggerstaff M, Hadler J. Journal of Infectious Diseases. 2010; 201(7): 984-992.

[Pandemic influenza in Canadian children: A summary of hospitalized pediatric cases](#)

Bettinger JA et al. Vaccine. Published online ahead of print 2010 Feb 26.

[Determinants of influenza immunization uptake in Canadian youths](#)

Li Z, Doan Q, Dobson S. Vaccine. Published online ahead of print 2010 Mar 1.

[Pandemic influenza A \(H1N1\) 2009 with neurological manifestations, a case series](#)

LM Noriega et al. Influenza and Other Respiratory Viruses. Published online ahead of print 2010 Feb 25.

[Delayed Clearance of Viral Load and Marked Cytokine Activation in Severe Cases of Pandemic H1N1 2009 Influenza Virus Infection](#) *

Kelvin K. W. To, Ivan F. N. Hung, Iris W. S. Li, Kar Lung Lee, Chi Kwan Koo, Wing Wa Yan, Raymond Liu, Ka Ying Ho, Kwok Hong Chu, Chi Leung Watt, Wei Kwang Luk, Kang Yiu Lai, Fu Loi Chow, Thomas Mok, Tom Buckley, Jasper F. W. Chan, Samson S. Y. Wong, Bojian Zheng, Honglin Chen, Candy C. Y. Lau, Herman Tse, Vincent C. C. Cheng, Kwok Hung Chan, Kwok Yung Yuen, and the Pandemic H1N1 Study Group. Clinical Infectious Diseases 2010 March 15.

[Impact of the Novel Influenza A \(H1N1\) during the 2009 Autumn-Winter Season in a Large Hospital Setting in Santiago, Chile](#)

Juan Pablo Torres, Miguel O'Ryan, Beatrice Herve, Ricardo Espinoza, Guillermo Acuña, Jaime Mañalich, and May Chomali. Clinical Infectious Diseases 2010 March 15.

[Surveillance Lessons from First-wave Pandemic \(H1N1\) 2009, Northern California, USA](#)

Roger Baxter Emerging Infectious Diseases March 2010

[Influenza A Pandemic \(H1N1\) 2009 Virus Infection in Domestic Cat](#)

Brett A. Sponseller, Erin Strait, Albert Jergens, Jessie Trujillo, Karen Harmon, Leo Koster, Melinda Jenkins-Moore, Mary Killian, Sabrina Swenson, Holly Bender, Ken Waller, Kristina Miles, Tracy Pearce, Kyoung-Jin Yoon, and Peter Nara. Emerging Infectious Diseases 2010 March.

[School Closure and Mitigation of Pandemic \(H1N1\) 2009, Hong Kong](#)

J.T. Wu et al. Emerging Infectious Diseases 2010 March.

Letter: [Rhabdomyolysis and Pandemic \(H1N1\) 2009 Pneumonia in Adult](#)
Ramiro L. Gutierrez, Michael W. Ellis, and Catherine F. Decker. Emerging Infectious Diseases 2010 March.

Letter: [Neurologic Manifestations of Pandemic \(H1N1\) 2009 Virus Infection](#)
Sarawut Kitcharoen, Moragot Pattapongsin, Kittisak Sawanyawisuth, Vincent Angela, and Somsak Tiamkao. Emerging Infectious Diseases 2010 March.

[Pandemic \(H1N1\) 2009 Infection in Swine Herds, Manitoba, Canada](#)
Tim Pasma and Tomy Joseph. Emerging Infectious Diseases [Epub ahead of print]

Letter: [Pandemic \(H1N1\) 2009 Risk for Nurses after Trivalent Vaccination](#)
Mark Loeb. Emerging Infectious Diseases. [Epub ahead of print]

[Possible Neuropsychiatric Reaction to High-Dose Oseltamivir during Acute 2009 H1N1 Influenza A Infection](#)
Kenta Nakamura, Brian S. Schwartz, Niklas Lindegårdh, Chris Keh, and B. Joseph Guglielmg. Clinical Infectious Diseases 2010 March 1.

[Surgical Masks for Protection of Health Care Personnel against Pandemic Novel Swine- Origin Influenza A \(H1N1\)-2009: Results from an Observational Study](#) *
Brenda Ang, Bee Fong Poh, Mar Kyaw Win, and Angela Chow. Clinical Infectious Diseases 2010 Feb 23.

[Losing the Opportunity to Study Influenza Drugs](#) *
Andrea Meyerhoff; Paul Lietman. JAMA 2010 March 3.

[Vaccination against pandemic influenza A/H1N1v in England: A real-time economic evaluation](#) *
Marc Baguelin, Albert Jan Van Hoek, Mark Jit, Stefan Flasche, Peter J. White and W. John Edmunds. Vaccine 2010 March 11.

[An alternative method for preparation of pandemic influenza strain-specific antibody for vaccine potency determination](#) *
Falko Schmeisser, Galina M. Vodeiko, Vladimir Y. Lugovtsev, Richard R. Stout and Jerry P. Weir. Vaccine 2010 March 11.

[AF03-adjuvanted and non-adjuvanted pandemic influenza A \(H1N1\) 2009 vaccines induce strong antibody responses in seasonal influenza vaccine-primed and unprimed mice](#) *
Catherine Caillet, Fabienne Piras, Marie-Clotilde Bernard, Aymeric de Montfort, Florence Boudet Frederick R. Voge, Agnès Hoffenbach Catherine Moste and Inca Kusters. Vaccine 2010 March 1.

[Effects of Early Oseltamivir Therapy on Viral Shedding in 2009 Pandemic Influenza A \(H1N1\) Virus Infection](#) *
Li M. Ling, Angela L. Chow, David C. Lye, Adriana S. Tan, Prabha Krishnan, Lin Cui, Nwe N. Win, Monica Chan, Poh L. Lim, Cheng C. Lee, and Yee S. Leo. Clinical Infectious Diseases 2010 April 1.

[Experimental inoculation of pigs with pandemic H1N1 2009 virus and HI cross-reactivity with contemporary swine influenza virus antisera](#)

Amy L. Vincent, Kelly M. Lager, Kay S. Faaberg, Michelle Harland, Eraldo L. Zanella, Janice R. Ciacci-Zanella, Marcus E. Kehrli Jr, Bruce H. Janke, Alexander Klimov. *Influenza and Other Respiratory Diseases* 2010 March 04.

[Household Transmission of 2009 Influenza A \(H1N1\) Virus after a School-Based Outbreak in New York City, April–May 2009](#) *

Anne Marie France, Michael Jackson, Stephanie Schrag, Michael Lynch, Christopher Zimmerman, Matthew Biggerstaff, and James Hadler. *Journal of Infectious Diseases* 2010 April 01.

[Human Infection with a Triple-Reassortant Swine Influenza A\(H1N1\) Virus Containing the Hemagglutinin and Neuraminidase Genes of Seasonal Influenza Virus](#) *

Nathalie Bastien, Nick A. Antonishyn, Ken Brandt, Christine E. Wong, Khami Chokani, Niki Vegh, Greg B. Horsman, Shaun Tyler, Morag R. Graham, Frank A. Plummer, Paul N. Levett, and Yan Li. *Journal of Infectious Diseases* 2010 March 03.

[Influenza H1N1 A/Solomon Island/3/06 virus receptor binding specificity correlates with virus pathogenicity, antigenicity and immunogenicity in ferrets](#)

Qi Xu, Weijia Wang, Xing Cheng, James Zengel, and Hong Jin. *Journal of Virology* 2010 March 03.

[Evolutionary pattern of pandemic influenza \(H1N1\) 2009 virus in the late phases of the 2009 pandemic.](#)

By Maria Beatrice Valli, Silvia Meschi, Marina Selleri, Paola Zaccaro et al. *PLoS Currents: Influenza* 2010 March 04.

Travel Advisories

[NOV 27] [WHO: Travel Safety](#)

[NOV 19] [Travel Health Notice: Global H1N1 flu virus](#)

[OCT 29] [H1N1 Backgrounder: Planes, Trains, Ferries and Buses—Advice for Travellers, Crews and Operators](#)

[OCT 26] [Hajj Pilgrims: Recommendations for travel](#)