

pH1N1 Flu Virus (Human Swine Influenza) Information Resources

Current as of November 6, 2009 at 4pm

Highlights

PHAC: [Guidance: Infection prevention and control measures for Health Care Workers Providing Care or Service in the Home](#)

[Mass Immunization Clinics in Remote and Isolated Communities](#)

EU: European Medicines Agency: [European strategy for benefit-risk monitoring of influenza A/H1N1 vaccines adopted](#)

WHO: [Pandemic \(H1N1\) 2009 - update 73](#)

Literature -----

EHT: [Modeling vaccination campaigns and the Fall/Winter 2009 activity of the new A\(H1N1\) influenza in the Northern Hemisphere](#)

ObGyn: [H1N1 Influenza in Pregnancy: Cause for Concern](#)

BMJ(CE): [Does every new influenza reassortant virus qualify as a pandemic virus?](#)

NEJM: Editorial: [Mandatory Vaccination of Health Care Workers.](#)

JAMA: Editorial: [Influenza in 2009: New Solutions, Same Old Problems*](#)

News -----

[Nova Scotia Teachers Union President wants N. S. Education Minister to send pregnant teachers home](#)

[WHO Targets Hemorrhagic H1N1 Cases in Lviv Ukraine](#)

[Clusters of Hemorrhagic H1N1 Pneumonia in Ukraine](#)

[Flu vaccination campaign poses monitoring difficulties](#)

[WHO warns countries not to underestimate pandemic virus](#)

[Reanalysis changes findings in respiratory protection study](#)

[Germany approves cell-based pandemic vaccine](#)

German drug regulators have approved Novartis's cell-culture pandemic H1N1 vaccine, becoming the first country to clear a cell-based version.

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[Ontario Ministry of Health and Long-Term Care \(MOHLTC\)](#)
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Canada

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

United States

[Centers for Disease Control and Protection \(CDC\)](#)
[Center for Infectious Disease Research & Policy](#)
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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 \(WHO\)](#)
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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>

[NOV 10] [COCA Conference Call: 2009 H1N1 Influenza and Asthma](#)
Speakers: Dr. David B. Callahan, Dr. Alkis Togias, Dr. Gail Weinmann
Date: Tuesday, November 10, 2009 | Time: 11:00 AM - 12:00 PM ET
Call-in number: 888-283-2960 | Passcode: 7113863
The PowerPoint Presentation will be available on the COCA website on November 10th.

Objectives: After this activity, the participants will be able to:

1. Understand the risk that 2009 H1N1 influenza poses to persons with asthma.
2. Understand the underlying pathophysiology that predisposes persons with asthma to serious outcomes.
3. Know the experience so far with 2009 H1N1 influenza among persons with asthma.
4. Know how to reduce risks through achieving better asthma control, vaccination, early treatment, and other clinical interventions.
5. Know that persons with other chronic lung diseases (such as chronic obstructive lung disease [COPD]) are at risk as well.

Archived

[NOV 4] MOHLTC: [H1N1 News Conference](#)

[ARCHIVED] [COCA conference calls](#)

[ARCHIVED] U.S. DHHS [H1N1 Video Briefing archive](#)

- September 8: Rear Admiral Anne Schuchat (CDC) gives a briefing on updated recommendations on the use of antivirals as well as an update on the H1N1 (swine) flu.

[ARCHIVED] [Know what to do about the flu](#): webcast series from the U.S flu.gov

- September 9: Parents and Child Care Providers

Ministry of Health and Long-Term Care (MOHLTC)



[NOV 6] MOHLTC: [H1N1 News Conference](#) (Nov 5th edition)

[OCT 30] [Ontario Influenza Bulletin: Surveillance Week 42 \(Oct 18 – Oct 24\)](#)

- Influenza activity in Ontario was higher compared to the previous week.
- There are 4,814 confirmed cases of H1N1 flu virus reported through the integrated Public Health System (iPHIS).
- 30 deaths have been reported among confirmed H1N1 cases.
- 68 people who have the H1N1 flu virus were in hospital as of 8:30 a.m. on October 28, a number of whom have underlying medical conditions. 475 other people have been hospitalized and have since been discharged.
- More hospitalized cases were reported this week compared to last week. Two new deaths among cases were reported this week.

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

Important Health Notices

[NOV 3] [pH1N1 – Primary Health Care Services and Supports](#)

Ontario Agency for Health Protection and Promotion (OAHP)

[NOV 5] [Laboratory Surveillance Update - October 30, 2009](#)

[NOV 5] [Weekly Synthesis of Surveillance Information, Literature & Government Updates \(Week ending Nov 2nd, 2009\)](#)

[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.



[NOV 6] [Guidance: Infection prevention and control measures for Health Care Workers Providing Care or Service in the Home](#)



[NOV 4] [Mass Immunization Clinics in Remote and Isolated Communities](#)
(Dated Oct 22, posted Nov 4)

[NOV 4] [Respiratory Virus Detections/Isolations for the week ending October 31, 2009 \(Reporting Week 200943\)](#)

[NOV 4] [Guidance for the Preparedness and Management of Influenza-Like Illness \(ILI\), Including Pandemic \(H1N1\) 2009, in Residential Facilities in Remote and Isolated Communities](#)

[NOV 3] [Addendum to the October 21, 2009 - Guidance Document on the Use of Pandemic Influenza A \(H1N1\) 2009 Inactivated Monovalent Vaccine Use of Panvax® H1N1 Vaccine \(CSL Biotherapies Inc.\) \(Unadjuvanted\)](#)

[NOV 2] [Weekly Distribution of the H1N1 Flu Vaccine](#)

The Government of Canada is overseeing the distribution of the H1N1 flu vaccine from the vaccine manufacturer to the provinces and territories. The vaccine is being distributed to the provinces and territories on a per capita basis, as agreed to by the Chief Medical Officers of Health. The Territories have been supplied in full from initial shipments to minimize the number of shipments, given the logistical challenges of shipping to the North.

The following table lists the number of doses of H1N1 flu vaccine distributed per week to each province/territory, and the forecasted the number of doses to be distributed in the coming week.

Weekly Distribution of the H1N1 Flu Vaccine					
	Delivered to Date				Forecast
	Week 1	Week 2	Week 3		Week 4
	Oct. 12 - 18	Oct. 19 - 25	Oct 26 - Nov 1		Nov 2 - Nov 8
FPT	Adj. Doses	Adj. Doses	Adj. Doses	Total Doses Distributed ¹	Adj. / Unadj. Doses
Newfoundland	28,000	28,000	30,000	86,000	7,500 / 2,900
PEI	8,000	12,000	9,000	29,000	2,500 / 900
Nova Scotia	52,000	52,000	56,000	160,000	13,500 / 5,400
New Brunswick	41,500	41,500	46,000	129,000	11,000 / 4,400
Quebec	431,000	431,000	469,000	1,331,000	113,000 / 52,000
Ontario	722,000	722,000	785,000	2,229,000	189,500 / 86,800
Manitoba	71,000	63,000	72,000	206,000	17,500 / 9,200
Saskatchewan	56,500	56,500	60,000	173,000	14,500 / 8,100
Alberta	201,000	201,000	220,000	622,000	52,500 / 28,600
BC	232,500	232,500	353,000	818,000	64,500 / 25,000
Nunavut	22,000	0	0	22,000	0 / 600
Yukon	24,000	0	0	24,000	0 / 400
NWT	34,000	0	0	34,000	0 / 600
TOTAL:	1,923,500	1,839,500	2,100,000	5,863,000	486,000 / 224,900

¹ Dose distribution as of end of Oct. 31 (3 weeks of distribution)

[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 6] [U.S. Laboratory Confirmed Influenza-Associated Hospitalizations and Deaths from August 30 to October 31, 2009](#)

Cases Defined by	Hospitalizations	Deaths
Influenza Laboratory-Tests**	17,838	672

[NOV 5] CDC-TV : Influenza Round Table
[Dr. Joe Bresee, Chief, Epidemiology and Prevention Branch, Influenza Division, CDC]

- [Don't get, don't spread](#)
- [Warning signs](#)
- [Take 3](#)
- [Antiviral drugs](#)

[NOV 4] [CDC Interim Guidance for Workers who are Employed at Commercial Swine Farms: Preventing the Spread of Influenza A Viruses, Including the 2009 H1N1 Virus](#)

[NOV 3] [Antiviral Safety Information](#): Updated

[NOV 3] [Monovalent Influenza Vaccine Dosage, Administration, and Storage](#)
This document provides health care providers, clinicians, and vaccine planners with information about 2009 H1N1 monovalent influenza vaccine dosage, administration and storage.

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

Other US Sources

[NOV 4] [FDA issues guidance on diagnostic tests](#)
The US Food and Drug Administration (FDA) published guidance yesterday to help manufacturers develop diagnostic tests for the novel H1N1 influenza virus. Manufacturers of tests can submit a request to the FDA for an Emergency Use Authorization (EUA). If granted, the EUA will allow the test to be used during the H1N1 pandemic. No H1N1 test is currently approved or cleared by the FDA.

[NOV 2] [Updated Results: In Youngest Children, a Second Dose of 2009 H1N1 Influenza Vaccine Elicits Robust Immune Response](#)
The National Institute of Allergy and Infectious Diseases (NIAID), part of the National Institutes of Health, today announced interim results that show that children nine years of age and younger have a significantly improved immune response when given a second 15-microgram dose of 2009 H1N1 influenza vaccine.

Center for Infectious Disease Research and Policy



[NOV 5] [WHO warns countries not to underestimate pandemic virus](#)
An official from the World Health Organization (WHO) today said he expects serious cases and deaths as pandemic flu activity picks up in the Northern Hemisphere, and he warned people not to underestimate the virus, even though illnesses are often mild.



[NOV 5] [Reanalysis changes findings in respiratory protection study](#)
A reanalysis prompted by reviewers has changed the conclusions of a study comparing N-95 respirators with surgical masks, raising questions about earlier findings that the N-95 devices were clearly more effective in protecting healthcare workers from respiratory illness.



[NOV 5] [Flu-like illnesses on US campuses up 2%](#)
The American College Health Association (ACHA) says its member schools had 28.6 new cases of flu-like illness per 10,000 students last week, a 2% increase from the week before. New cases at the 274 schools totaled 9,128. Forty-three percent of the colleges (117 of 274) had H1N1 vaccine on hand, but only about 1% of the students have been vaccinated so far, the association said.



[NOV 5] [Poll: 52% of Americans likely to get H1N1 vaccine](#)
Fifty-two percent of respondents in a national McClatchy-Ipsos poll said they are likely to get the H1N1 vaccine, while 47% said they are unlikely to get it, according to a McClatchy Newspapers report. In other findings, 63% of respondents said they were concerned about the virus, and 65% said they thought the Obama administration had done everything it could to provide the vaccine in time. The poll involved 1,077 people and had a sampling error margin of 3%.



[NOV 5] [Germany approves cell-based pandemic vaccine](#)
German drug regulators have approved Novartis's cell-culture pandemic H1N1 vaccine, becoming the first country to clear a cell-based version, the company announced today. The vaccine, made in Marburg, Germany, contains 3.75 micrograms of antigen and an MF95 adjuvant. It is approved for those 6 months old and older. Studies found a single dose provoked a good immune response with no unexpected safety or tolerability concerns. Novartis is building a second cell-culture plant in the United States.

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

Health Protection Agency (UK)

[NOV 5] [HPA Weekly National Influenza Report 05 November 2009 \(Week 45\)](#)

[NOV 4] [Vaccination programme update](#)

[NOV 4] [The swine flu vaccines, their preparation and administration: a practical guide for health professionals](#)

[ARCHIVED] [Swine Influenza page](#)

Department of Health (UK)

- [NOV 5] [Weekly pandemic flu media update](#)
- The flu-like illness rate in England from the Royal College of General Practitioners (RCGP) scheme decreased to 37.7 per 100,000 in week 44 compared to 42.8 in week 43.
 - The main burden of flu-like illness nationally in week 44 is in the under 1 and 1-4 years age groups.
 - This week, the antiviral collection numbers in the National Pandemic Flu Service have decreased in the 5-14 and 15-24 years age groups.
 - 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 84,000 new cases in England last week (range 42,000 to 181,000). This represents an 8% increase on the previous week.
 - The HPA estimates a cumulative total number of cases of 621,000 since the pandemic began.
- [ARCHIVE] [DH Pandemic Flu site](#)

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



- [NOV 6] [Daily update – Pandemic H1N1 2009 \(06/11/2009\)](#)
- Update on events in Ukraine included;
 - Total of 389 fatal cases in Europe and EFTA countries and 6 005 in the rest of the world have been reported up to date.
- [ARCHIVED] [Maps, surveillance summaries and previous ECDC updates](#)

European Union



- [NOV 6] European Medicines Agency: [European strategy for benefit-risk monitoring of influenza A/H1N1 vaccines adopted](#)
- [NOV 3] [A Note on the Health Security Committee – Early Warning Response System Urgent Audio-Conference on 3 November 2009.](#)
The Commission called a meeting of the Health Security Committee – Early Warning Response System contact points to discuss, on 3 November, the flu developments in Ukraine and the countries in the region.
- [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 6] [Pandemic \(H1N1\) 2009 - update 73](#)

[NOV 5] [Infection of farmed animals with the pandemic virus
Pandemic \(H1N1\) 2009 briefing note 15](#)

[NOV 4] [WHO document "Whole-of-Society Pandemic Readiness"](#)
The World Health Organization (WHO) has released a set of guidelines—developed before the H1N1 influenza pandemic—on pandemic preparedness outside the health sector. The 18-page document includes sections on business continuity management, interdependencies among essential services, government's role, and the role of other organizations. A foreword cautions that, because the guidance was developed before the H1N1 pandemic, some information and recommendations may not be relevant to the current situation.

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

[ARCHIVED] [Older WHO Updates](#)

Pan-American Health Organization (PAHO)

[NOV 3] [Regional Update. Pandemic \(H1N1\) 2009 \(published Nov 3\)](#)

- The trends of acute respiratory disease in North America continue to increase; there were 22 influenza-associated pediatric deaths reported in the United States this week, twice as many as last week
- Central America continues to report overall decreasing trends in acute respiratory disease
- Most of South America had stable or decreasing trends of acute respiratory disease, with the exception of Colombia, which reported an increasing trend for the seventh consecutive week
- A median of 100% of subtyped influenza A viruses were pandemic (H1N1) 2009
- 224 new confirmed deaths in 10 countries were reported; in total there have been 4,399 cumulative confirmed deaths

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

Australia and New Zealand

[NOV 4] [New Zealand Pandemic Influenza \(H1N1\) 09 Swine Flu - Update 158](#)
A study investigating the level of immunity New Zealanders have to pandemic influenza (H1N1) will get underway this month. Blood samples will be taken from 2500 people to see how many have been exposed to pandemic influenza and developed immunity to it. This information will be used to establish how many people are still at risk of contracting the illness.

[OCT 26] [Australia National H1N1 Influenza 09 Update](#)

- Australia has 37,039 confirmed cases of pandemic (H1N1) 2009
- The number of deaths associated with pandemic (H1N1) 2009 continues to increase. As of 26 October, 186 people have died.
- Of these deaths, four were pregnant women and 24 (12.9%) were Indigenous.
- The total number of hospitalisations in Australia since pandemic (H1N1) 2009 is identified at 4,904

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

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

pH1N1 Clinical Information

[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 6] [The early diversification of influenza A/H1N1pdm](#)

Beck E, et al. PLoS Currents: Influenza.



[NOV 6] Editorial: [Influenza in 2009: New Solutions, Same Old Problems*](#)

Gerberding JL. JAMA. 2009;302(17):1907-1908.



[NOV 6] Editorial: [Mandatory Vaccination of Health Care Workers.](#)

Stewart AM. New England Journal of Medicine. Early online publication.



[NOV 6] [Modeling vaccination campaigns and the Fall/Winter 2009 activity of the new A\(H1N1\) influenza in the Northern Hemisphere](#)

Bajardi P, et al. Emerging Health Threats. 2009, 2:e11. doi: 10.3134/ehjt.09.011



[NOV 6] [H1N1 Influenza in Pregnancy: Cause for Concern](#)

Saleeby E, Chapman J, Morse J, Bryant A. Obstet Gynecol. 2009 Oct;114(4): 885-91.



[NOV 6] [Transmission and control of an emerging influenza pandemic in a small-world airline network*](#)

Hsu CI, Shih HH. Accid Anal Prev. 2010 Jan;42(1):93-100. Epub 2009 Jul 28.



[NOV 6] News: [Flu vaccination campaign poses monitoring difficulties](#)

Collier R. CMAJ. 2009 Oct 13;181(8):E163-4. Epub 2009 Sep 21. No abstract available.



[NOV 6] [Editorial: Does every new influenza reassortant virus qualify as a pandemic virus?](#)

BMJ Clinical Evidence. Commissioned Paper.

- [NOV 5] Eurosurveillance, Volume 14, Issue 44, 05 November 2009
- [Syndromic surveillance: the next phase of public health monitoring during the H1N1 influenza pandemic?](#)
 - [Surveillance of the first 205 confirmed hospitalised cases of pandemic H1N1 influenza in Ireland, 28 April – 3 October 2009](#)
 - [Measures against transmission of pandemic H1N1 influenza in Japan in 2009: simulation model](#)
 - [Interpreting “Google Flu Trends” data for pandemic H1N1 influenza: The New Zealand experience](#)
 - [“I-MOVE” towards monitoring seasonal and pandemic influenza vaccine effectiveness: lessons learnt from a pilot multi-centric case-control study in Europe, 2008-9](#)
 - [Influenza-like illness surveillance using a deputising medical service corresponds to surveillance from sentinel general practices](#)
- [NOV 5] [Insurers prepare for 2nd wave of H1N1 flu.](#)*
Berberabe T. Manag Care. 2009 Sep;18(9):55-6. No abstract available.
- [NOV 5] [Pulmonary complication of novel influenza A \(H1N1\) infection: imaging features in two patients.](#)*
Lee CW, Seo JB, Song JW, Lee HJ, Lee JS, Kim MY, et al. Korean J Radiol. 2009 Nov-Dec;10(6):531-4. PMID: 19885308 [PubMed - in process]
- [NOV 5] [The Emergency Use Authorization of Peramivir for Treatment of 2009 H1N1 Influenza.](#)*
Bimkrant D, Cox E. N Engl J Med. 2009 Nov 2. [Epub ahead of print] No abstract available. PMID: 19884645
- [NOV 5] [Number of swine flu patients going into intensive care is rising.](#)
Siva N. BMJ. 2009 Nov 2;339:b4528. doi: 10.1136/bmj.b4528. No abstract available. PMID: 19884211 [PubMed - in process]
- [NOV 4] [Pandemic Influenza as 21st Century Urban Public Health Crisis](#)
Bell DM, Weisfuse IB, Hernandez-Avila M, del Rio C, Bustamante X, Rodier G. Emerg Infect Dis. 2009 Dec; [Epub ahead of print]
- [NOV 4] [Genomic Signatures of Influenza A Pandemic \(H1N1\) 2009 Virus](#)
Chen G-W, Shih S-R. Emerg Infect Dis. 2009 Dec; [Epub ahead of print]
- [NOV 4] [Cost-effectiveness Analysis of Hospital Infection Control Response to an Epidemic Respiratory Virus Threat](#)
Dan YY, et al. Emerg Infect Dis. 2009 Dec; [Epub ahead of print]
- [NOV 4] [Respiratory Infection in Institutions during Early Stages of Pandemic \(H1N1\) 2009, Canada](#)
Marchand-Austin A, et al. Respiratory infection in institutions during early stages of pandemic (H1N1) 2009, Canada. Emerg Infect Dis. 2009 Dec; [Epub ahead of print]

- [NOV 3] [Does every new influenza reassortant virus qualify as a pandemic virus?](#)
Gross PA. BMJ. Published online 3 November 2009.
- [NOV 4] [Factors Associated With Death or Hospitalization Due to Pandemic 2009 Influenza A\(H1N1\) Infection in California*](#)
Louie JK et al. JAMA. 2009;302(17):1896-1902.
- [NOV 4] [Influenza in 2009: New Solutions, Same Old Problems*](#)
Gerberding JL. JAMA. 2009;302(17):1907-1908.
- [NOV 4] [Rhabdomyolysis Associated With 2009 Influenza A\(H1N1\)*](#)
Ayala E et al. JAMA. 2009;302(17):1863-1864.
- [NOV 4] [H1N1 Vaccine Urged for Health Workers, But Some Resist Getting on Board*](#)
Hampton T. JAMA. 2009;302(17):1848-1849.
- [NOV 4] [Hand Washing, a Key Anti-Flu Strategy, Often Neglected by Health Care Workers*](#)
Mitka M. JAMA. 2009;302(17):1850-1851.
- [NOV 4] [Preventing the spread of influenza A H1N1 2009 to health-care workers*](#)
Mermel LA. The Lancet Infectious Diseases, Early Online Publication, 4 November 2009. doi:10.1016/S1473-3099(09)70299-3.
- [NOV 3] [Acceptance of pandemic \(H1N1\) 2009 influenza vaccination by the Australian public](#)
Eastwood K, Durrheim DN, Jones A, Butler M. eMJA Rapid Online Publication – 4 November 2009.
- [NOV 3] [Quantifying the transmissibility of human influenza and its seasonal variation in temperate regions](#)
Truscott J et al. PLoS Currents; Influenza. Published online 3 November 2009.
- [NOV 2] [News: Number of swine flu patients going into intensive care is rising](#)
Siva N. BMJ. Published 2 November 2009, doi:10.1136/bmj.b4528
- [NOV 2] [The Emergency Use Authorization of Peramivir for Treatment of 2009 H1N1 Influenza](#)
Birnkranz D, Cox E. NEJM. Early Online Publication 3 Nov 2009.
- [NOV 1] [Impact of pandemic \(H1N1\) 2009 influenza on critical care capacity in Victoria](#)
Lum ME, et al. Med J Aust 2009; 191 (9): 502-506.
- [OCT 31] [H1N1 vaccine safety monitoring: beyond background rates*](#)
The Lancet, Early Online Publication, 31 October 2009

Travel Advisories

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

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