

H1N1 Flu Virus (Human Swine Influenza) Information Resources

(last updated June 22nd, 2009 at 5pm)

Overview

- Confirmed cases in Ontario as of **June 22**: 2,665 (2 deaths)
 - Ontario investigates first child fatality associated with H1N1 flu virus
- Confirmed cases in Canada as of **June 22**: 6,457 (incl. 15 deaths)
- Confirmed cases worldwide as of **June 22**: 52,160 (incl. 231 deaths)
 - WHO pandemic level: 6

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Events

Upcoming

[JUNE 24] The Ontario Hospital Association presents [The Pandemic Influenza: Where are we now?](#). The primary goal of this conference is to provide healthcare facilities with the tools and information they need to be able to recognize and manage an influenza pandemic. Chaired by Dr. Mary Vearncombe. Topics to include: H1N1 scientific update, ethics, occupational health issues, preparing for a pandemic vaccine response, risk communication, public health measures, and lessons learned. For brochure details and agenda: [Click here](#)
To register on-line: [Click here](#)

Archived

[JUNE 9] The American Bar Association's Health Law Section, the CDC Clinician Outreach and Communication Activity (COCA), and the CDC Public Health Law Program have collaborated to present a teleconference entitled ***Legal Issues Related to Novel Influenza A (H1N1)***. The PowerPoint Presentation will be available on the COCA website <http://emergency.cdc.gov/coca/callinfo.asp>

Ministry of Health and Long-Term Care (MOHLTC)



[JUNE 22] News Release: Ontario Investigates First Child Fatality Associated With H1N1 Flu Virus

Dr. Arlene King, Ontario's Chief Medical Officer of Health, says that a six-year-old girl with the H1N1 flu virus has died. The Peel Region child had not been hospitalized and passed away on June 15. On June 19 laboratory testing confirmed a positive test for the H1N1 flu virus in this individual. The H1N1 flu virus appears to have been a factor in the girl's death. The exact role the virus played in the death is under investigation by the Office of the Chief Coroner.

http://www.health.gov.on.ca/en/news/release/2009/jun/nr_20090622_2.aspx



[JUNE 22] 137 New Confirmed Cases Of H1N1 Flu Virus In Ontario
Ontario has 137 new confirmed cases of H1N1 flu virus since Friday, bringing the total number of cases in the province to 2,665. Almost all of the cases reported to date have symptoms similar to those of seasonal influenza. The vast majority of these cases have recovered. Twenty-four people who have the H1N1 flu virus were in hospital as of June 19, a number of whom have underlying medical conditions. The Ontario cases involve 1,365 males and 1,228 females (the gender of 12 cases is unknown) with an age range of <1 to 84. The average age of the cases is 21.

http://www.health.gov.on.ca/en/news/release/2009/jun/nr_20090622_2.aspx

[ARCHIVE] Previous MOHLTC updates and news conference video footage available at:

http://www.health.gov.on.ca/english/public/updates/archives/hu_09/swine_flu.html

Important Health Notices

[JUNE 11] H1N1 Update

The WHO has raised the global pandemic alert level from Phase 5 to Phase 6, signaling that a global pandemic is underway. This is based on trends in transmission globally, and does not reflect any change in severity of the circulating virus. Guidance to health care settings in Ontario remains unchanged.

http://www.health.gov.on.ca/english/providers/program/emu/health_notice_s/ihn_20090611.pdf

Ontario Agency for Health Protection and Promotion (OAHPP)

[ARCHIVE] Swine Influenza Outbreak page (no new resources since May 3)

<http://www.oahpp.ca/SRI%20Bulletin.php>

Public Health Agency of Canada (PHAC)



[JUNE 22] As of June 22, 2009, a total of 6,457 laboratory-confirmed cases of H1N1 flu virus have been reported in all provinces and territories in Canada (see Table 1 below). To date, 404 hospitalizations and fifteen deaths have been reported among laboratory-confirmed cases.

Summary of laboratory-confirmed cases of H1N1 flu virus reported to the Public Health Agency of Canada, by the provinces and territories:

Province / Territory	New Confirmed Cases	Total Confirmed Cases	Total Deaths
British Columbia	12	221	0
Alberta	107	605	1
Saskatchewan	67	577	0
Manitoba	76	371	2
Ontario	137	2665	3
Quebec	311	1660	9
New Brunswick	1	4	0
Nova Scotia	6	104	0
Prince Edward Island	0	3	0
Newfoundland	4	7	0
Yukon	0	1	0

Northwest Territories	0	5	0
Nunavut	30	234	0
TOTAL	747	6457	15

<http://www.phac-aspc.gc.ca/alert-alerte/swine-porcine/surveillance-eng.php>

[ARCHIVE] Previous PHAC documents and updates available from:

http://www.phac-aspc.gc.ca/alert-alerte/swine_200904-eng.php

Centers for Disease Control and Prevention (CDC)

The CDC now posts case count updates on Friday only.

[JUNE 19] Update: 21,449 confirmed and probable cases (incl. 87 deaths) in 53 states/territories as of 11am Friday June 19/09.

<http://www.cdc.gov/h1n1flu/update.htm>

[JUNE 18] Press briefing transcript: Investigation of Human Cases of Novel Influenza A (H1N1)

<http://www.cdc.gov/media/transcripts/2009/t090618.htm>

[JUNE 16] Interim Guidance for Homeless and Emergency Shelters on the Novel Influenza A (H1N1) Virus

<http://www.cdc.gov/h1n1flu/guidance/homeless.htm>

[ARCHIVE] Previous CDC documents and updates available from:

<http://www.cdc.gov/h1n1flu/guidance/>

Center for Infectious Disease Research and Policy

NEW

[posted JUNE 22] The role of the Department of Defense during a flu epidemic. US Congressional Research Service report.

http://assets.opencrs.com/rpts/R40619_20090604.pdf

NEW

[posted JUNE 17] Potential farm sector effects of 2009 H1N1 'swine flu': questions and answers. US Congressional Research Service (CRS) report.

http://assets.opencrs.com/rpts/R40575_20090520.pdf

NEW

[posted JUNE 16] The 2009 influenza A(H1N1) outbreak: selected legal issues. US Congressional Research Service (CRS) report.

http://assets.opencrs.com/rpts/R40560_20090506.pdf

[ARCHIVE] Older updates from CIDRAP available at:

<http://www.cidrap.umn.edu/cidrap/content/influenza/swineflu/index.html>

Health Protection Agency (UK)



[JUNE 22] Updated: Managing influenza-like illness (ILI) in nursing and residential homes during the current influenza pandemic (WHO Phase 6).
http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1242804139580



[JUNE 22] Update on confirmed swine flu cases. Cumulative laboratory confirmed cases to date: **2,773**
http://www.hpa.org.uk/web/HPAweb&HPAwebStandard/HPAweb_C/1245581501610

[ARCHIVE] Swine Influenza page:
<http://www.hpa.org.uk/webw/HPAweb&Page&HPAwebAutoListName/Pag e/1240732817665?p=1240732817665>

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



[JUNE 22] The cumulative number of cases in the EU and EFTA countries is now 4 245.

Main developments in past 24 hours:

- 326 new cases were reported in EU and EFTA countries;
- 929 new cases were reported from non-EU and EFTA countries;
- The total of fatal cases worldwide is 232;
- Two fatal cases have been reported by Colombia and Philippines since yesterday.

http://ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090622_1700.pdf



[JUNE 21] Situation report: **3,921** confirmed cases in EU/EFTA countries

Main developments in past 24 hours:

- 276 new cases were reported in EU and EFTA countries;
- 512 new cases were reported from non-EU and EFTA countries;
- Two new countries reported cases for the first time: Algeria and Ethiopia.
- The total of fatal cases worldwide is 229
- Developments concerning pandemic influenza in North America

http://ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090621_1700.pdf

[JUNE 18] Evolution of the pandemic of A(H1N1)v influenza: lessons from past pandemics and the North American experience so far.

http://www.ecdc.europa.eu/en/Health%5Ftopics/Pandemic_Influenza/General_pandemic_2009_talk_090618.ppt

[ARCHIVE] Maps, surveillance summaries and previous ECDC updates available from:

<http://www.ecdc.europa.eu/en/Health%5Ftopics/novel%5Finfluenza%5Fvirus/2009%5FOutbreak/>

World Health Organization (WHO)



[JUNE 22] Update 52: Cumulative total number of cases worldwide: 52,160 (incl. 231 deaths)

http://www.who.int/csr/don/2009_06_22/en/index.html

[ARCHIVE] WHO H1N1 Guidance documents available at:

<http://www.who.int/csr/disease/swineflu/guidance/en/index.html>

[ARCHIVE] Older WHO updates available at:

<http://www.who.int/csr/disease/swineflu/en/index.html>

Pan-American Health Organization (PAHO)

[JUNE 19] Influenza A(H1N1) Regional Report

As of 19 June 2009, **41,901 confirmed cases** of the Pandemic H1N1 2009 infection, including **226 deaths**, have been notified in **27 countries of the Americas**: Argentina, Bahamas, Barbados, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Jamaica, Mexico, Nicaragua, Paraguay, Panama, Peru, Suriname, Trinidad and Tobago, United States, Uruguay and Venezuela.

http://new.paho.org/hq/index.php?option=com_content&task=view&id=1516&Itemid=1167

[ARCHIVE] PAHO Influenza A(H1N1) Portal

http://new.paho.org/hq/index.php?option=com_content&task=blogcategory&id=805&Itemid=569&lang=en

Google News Search on Swine Flu

[JUNE 19] Results are refreshed each time you click on the link.

<http://www.google.com/cse?cx=014077570761466621685%3As7g-vqi-dmo&cof=FORID%3A11&q=swine+flu&sa=search+influenza+sites>

Mapping Resources

[JUNE 17] From Science Daily

A Warwick Business School professor and one of the founders of global risks specialist, Maplecroft, has released three new maps and indices revealing the countries most at risk from an influenza pandemic.

The Influenza Pandemic Risk Index (IPRI) consists of three categories:

- Risk of Emergence
- Risk of Spread
- Capacity to Contain

<http://maps.maplecroft.com/panspread>

World Health Organization interactive timeline map of cases: view the number of cases reported on any given day since April 26, 2009

http://www.who.int/csr/disease/swineflu/history_map/InfluenzaAH1N1_maps.html

Pan-American Health Organization: Atlas to Confirmed Cases of Influenza A(H1N1)

<http://ais.paho.org/flu/sm/en/atlas.html>

HealthMap: Swine flu global disease alert map

<http://www.healthmap.org/en>

Google: Swine flu map

<http://maps.google.com/maps/ms?ie=UTF8&hl=en&t=p&msa=0&msid=106484775090296685271.0004681a37b713f6b5950&z=2>

Twitter Feeds, Weblogs, RSS Feeds, etc

World Health Organization News on Twitter

<http://twitter.com/whonews>

Health Map on Twitter

<http://twitter.com/healthmap>

Avian/Pandemic Influenza Daily Digest on Twitter

<http://twitter.com/AIDigest>

CDC swine flu updates on Twitter

<http://twitter.com/cdcemergency>

Avian/Pandemic Influenza Daily Digest Blog

<http://aidailydigest.blogspot.com/>

Avian/Pandemic Influenza Daily Digest RSS Feed

http://twitter.com/statuses/user_timeline/32957440.rss

Business Resources

Harvard Health Publications

Business Preparedness for Pandemic: Executive briefing for corporate and governmental decision-makers

https://www.health.harvard.edu/special_health_reports/Business-Preparedness-for-Pandemic?utm_source=twitter&utm_medium=tweet&utm_campaign=0526_tw

Link to report from U.S. Government Accountability Office re Pandemic Planning and funding

<http://www.gao.gov/new.items/d09760t.pdf>

Canadian Business

H1N1 virus: A plan for the worst

http://www.canadianbusiness.com/managing/strategy/article.jsp?content=20090615_10014_10014

Scientific Resources

American Journal of Epidemiology (AJE)

AJE H1N1 Collection (all articles freely available)

<http://aje.oxfordjournals.org/collections/>

American Society for Microbiology

Research Publications on Influenza A(H1N1)

<http://tinyurl.com/asmh1n1>.

BioMed Central

Influenza Gateway (all articles freely available)

<http://www.biomedcentral.com/gateways/influenza>

British Medical Journal

Podcast: Swine flu: planning

<http://podcasts.bmj.com/bmj/2009/05/26/swine-flu-planning/>

Centre for Agriculture and Biosciences International (CABI)

Global Health database: international coverage of all aspects of human health from the Centre for Agriculture and Biosciences International.
<http://217.154.120.6/GLOBALHEALTH/searchform-quicksearch.nsp>

↳ Related: Swine flu **dashboard from CABI.org**
<http://www.netvibes.com/cabialerts>

DynaMed

Clinical summaries on Swine Flu & H1N1: free access courtesy of EBSCO
<http://www.ebscohost.com/dynamed/swineflu/> and
<http://www.ebscohost.com/dynamed/h1n1/>

Epidemiologic Reviews

H1N1 Collection (all articles freely available)
<http://epirev.oxfordjournals.org/collections/>

Epidemiology and Infection

In the light of recent global events and the ensuing public health issues, Cambridge Journals are giving you **FREE access** to articles which are related to the Influenza A H1N1 'swine flu' virus and which are published in Epidemiology and Infection. [Click here to access a special sample issue covering key research on influenza.](#)

Human/Swine A/H1N1 Influenza Origins and Evolution

<http://tree.bio.ed.ac.uk/groups/influenza/>

Lancet

H1N1 Flu Resource Centre (contains content from numerous Elsevier journals)
<http://www.TheLancet.com/H1N1-flu>

Medline

Medline literature search on H1N1 (current as of today). Click [here](#) to run a search.

Nature

Swine Flu Tracker
<http://www.nature.com/news/specials/swineflu/index.html>

New England Journal of Medicine (NEJM)

NEJM H1N1 Influenza Center

<http://h1n1.nejm.org/>

Science

Science Insider Swine Flu Archives

<http://blogs.sciencemag.org/scienceinsider/swine-flu/>

Thomson Reuters

Free H1N1 briefing (updated daily) from *Proux Science Integrity*® portal

<http://science.thomsonreuters.com/pharma/h1n1/>

New & Notable Research Articles



Katz R. Use of revised international health regulations during influenza A (H1N1) epidemic, 2009. *Emerg Infect Dis*. 2009 Aug; [Epub ahead of print].

<http://www.cdc.gov/eid/content/15/8/pdfs/09-0665.pdf>



Radonovich LJ, Magalian PD, Hollingsworth MK, Baracco G. Stockpiling supplies for the next influenza pandemic [online report]. *Emerg Infect Dis* [serial on the Internet]. 2009;15(6).

<http://www.cdc.gov/eid/content/15/6/e1.htm>

[JUNE 19] Novel Influenza A (H1N1) Virus Infections Among Health-Care Personnel --- United States, April--May 2009. *Morbidity and Mortality Weekly Report (MMWR)*.

<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5823a2.htm>

[JUNE 19] Comment: Patient-oriented pandemic influenza research. *Lancet*.

<http://www.thelancet.com/journals/lancet/article/PIIS0140673609611314/fulltext?rss=yes>. Abstract only.

[JUNE 19] Editorial: Avoiding panic in a pandemic. *Lancet*.

[http://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(09\)61130-2/fulltext](http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(09)61130-2/fulltext). Abstract only.

[JUNE 19] Letter: H1N1, public health security, bioethics, and human rights. *Lancet*.

[http://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(09\)61143-0/fulltext](http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(09)61143-0/fulltext). Abstract only.

[JUNE 18] Editorial: Influenza A(H1N1)v in the southern hemisphere - lessons to learn for Europe? *Eurosurveillance*.

<http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=19246>

[JUNE 18] School closure is currently the main strategy to mitigate influenza A(H1N1)v: a modeling study *Eurosurveillance*.

<http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=19240>

[JUNE 18] A variety of respiratory viruses found in symptomatic travellers returning from countries with ongoing spread of the new influenza A(H1N1)v virus strain. *Eurosurveillance*.

<http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=19242>

[JUNE 16] Toshihiro Tanaka, Ken Nakajima, Atsuko Murashima, Facundo Garcia-Bournissen, Gideon Koren, and Shinya Ito. Safety of neuraminidase inhibitors against novel influenza A (H1N1) in pregnant and breastfeeding women.

<http://www.cmaj.ca/cgi/rapidpdf/cmaj.090866v2>

Preliminary analysis of Influenza A (H1n1) Individual and aggregated case reports from EU and EFTA countries / ECDC Working Group on Influenza A (H1N1). *Eurosurveillance*, June 11, 2009.

<http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=19238>

Smith GJD, Vijaykrishna D, Bahl J, et al. Origins and evolutionary genomics of the 2009 swine-origin H1N1 influenza A epidemic. *Nature* 2009.

http://www.nature.com/nature/journal/vnfv/ncurrent/pdf/nature08182.pdf?_xsl=/mobil/cms-common.xsl

Nava GM, Attene-Ramos MS, Ang JK, et al. Origins of the new influenza A (H1N1) virus: time to take action. *Eurosurveillance* 2009 Jun 4;14(22).

<http://www.eurosurveillance.org/ViewArticle.aspx?ArticleId=19228>

Update: Novel Influenza (H1N1) virus infection, Mexico, March-May 2009. *MMWR*: Vol. 58, no. 21 June 5, 2009

http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5821a2.htm?s_cid=mm5821a2_x

J.A. Belser et al. Past, Present, and Possible Future Human Infection with Influenza Virus A Subtype H7. *Emerging Infectious Diseases*. 2009 June;15(6):859-865.

<http://www.cdc.gov/eid/content/15/6/pdfs/859.pdf>

Clinical and Public Health Practice Tools

[JUNE 15] Algorithms from 18 US states to assist in decisions regarding testing and treatment of H1N1

<http://www.smh.com/sections/services-procedures/medlib/Pandemic/Algorithms/Algorithms.html>

Historical Resources

Howard Markel, MD, PhD; Harvey B. Lipman, PhD; J. Alexander Navarro, PhD; Alexandra Sloan, AB; Joseph R. Michalsen, BS; Alexandra Minna Stern, PhD; Martin S. Cetron, MD. Nonpharmaceutical Interventions Implemented by US Cities During the 1918-1919 Influenza Pandemic. *JAMA*. 2007;298(6):644-654.

<http://jama.ama-assn.org/cgi/content/full/298/6/644>

Interview: Swine flu of 1976: lessons from the past. Interview with Harvey V Fineberg (WHO Bulletin June 2009)

<http://www.who.int/bulletin/volumes/87/6/09-040609.pdf>

The Swine Flu Affair: Decision-Making on a Slippery Disease [1978]

http://www.nap.edu/catalog.php?record_id=12660&utm_medium=email&utm_source=National%20Academies%20Press&utm_campaign=Swine%20Flu%203&utm_content=Downloader&utm_term

Travel Advisories

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

<http://www.phac-aspc.gc.ca/tmp-pmv/2009/h1n1-mexico-090518-eng.php>