

H1N1 Flu Virus (Human Swine Influenza)

Information Resources

(last updated May 29th, 2009, 5pm)

Overview

- Confirmed cases in Ontario as of **May 29, 3pm**: 626
- Confirmed cases in Canada as of **May 27, 3pm**: 1118 (incl. 1 death in AB, 1 in Ontario)
- Confirmed cases worldwide as of **May 29, 6am GMT**: 15 510 (incl. 99 deaths)
 - WHO pandemic level: 5

MOHLTC Media lines

General Public: Info Line 1-866-532-3161

Media: Media line 416-314-6197 or 1-888-414-4774

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Updates by Jurisdiction

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](#)

Europe

[United Kingdom's Health Protection Agency \(HPA\)](#)
[European Centre for Disease Control and Prevention \(ECDC\)](#)

International

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Live Searches, News Feeds and Disease Tracking Tools

[Google news search](#)
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Other Resources

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Events

Upcoming

Nothing of interest.

Archived

[MAY 17] *The Lancet* co-hosted a session on influenza A H1N1 at the European Congress on Clinical Microbiology and Infectious Diseases (ECCMID) in Helsinki, Finland. Video highlights available at link below.
www.TheLancet.com/H1N1-flu.

[MAY 8] Friday May 8, 8pm EST: "The Agenda" on TVO
The science and politics of swine flu with guests Vivek Goel, Allison McGeer, Andrew Nikiforuk, and Peter Singer.

Ministry of Health and Long-Term Care (MOHLTC)



[MAY 29] Dr. David Williams, Ontario's Acting Chief Medical Officer of Health, says there are 131 new confirmed cases of H1N1 flu virus since Wednesday, bringing the total number of cases in Ontario to 626.

Almost all of the cases reported to date are considered mild. One person with a chronic pre-existing medical condition died on May 23. The autopsy results from the Office of the Chief Coroner have shown that the cause of death is pneumonia that appears to be of bacterial origin and there is evidence of significant heart disease also present. The role of H1N1 virus in this case is unclear and may be difficult to ascertain. Six people who have the H1N1 flu virus were in hospital as of May 28, 2009, a number of whom have underlying medical conditions.

The Ontario cases involve 315 males and 309 females (the gender of two cases is unknown) with an age range of <1 to 80. The breakdown by health unit is as follows :

Health Unit	New Confirmed Cases	Total Confirmed Cases
Toronto	76	313
Peel Region	26	98
York Region	15	82
Halton	3	62
City of Ottawa	3	19
Durham Region	0	16
Simcoe Muskoka District	3	9
Windsor Essex	0	5
Hamilton	1	5
Wellington Dufferin Guelph	2	4
Sudbury and District	0	3
Waterloo Region	1	3
Niagara Region	1	1
Oxford County	1	1
Leeds, Grenville & Lanark	0	1

Middlesex-London	0	1
Hastings and Prince Edward Counties	0	1
Out of province (*)	0	2
TOTAL	131	626

(*) – Visitors who were tested and confirmed in Ontario but do not reside in the province.

http://www.health.gov.on.ca/english/media/news_releases/archives/nr_09/may/nr_20090529.html

[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

No new H1N1 notices since May 19.

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)



As of May 27 2009, a total of 1118 laboratory-confirmed cases of H1N1 flu virus have been reported in 9 provinces and 1 territory in Canada

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

Province / Territory	¹ NEW Laboratory-Confirmed Cases reported since May 25, 2009	TOTAL Laboratory-confirmed Cases (including today's cases)	Total Deaths ²
British Columbia	5	120	0
Alberta	13	109	1
Saskatchewan	13	104	0
Manitoba	0	6	0

Province / Territory	¹ NEW Laboratory-Confirmed Cases reported since May 25, 2009	TOTAL Laboratory-confirmed Cases (including today's cases)	Total Deaths ²
Ontario	143	495	1
Quebec	22	207	0
New Brunswick	0	2	0
Nova Scotia	1	71	0
Prince Edward Island	0	3	0
Newfoundland	0	0	0
Yukon	0	1	0
Northwest Territories	0	0	0
Nunavut	0	0	0
Total	197	1,118	2

<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)



[MAY 29, 11am] Confirmed and probable cases in the US: 8,975 (incl. 15 deaths)

48 states affected. Updates are provided Mon, Wed, and Fri.

Status: Public Health Emergency

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



[MAY 28] Post-mortem Care and Safe Autopsy Procedures for Novel H1N1 Influenza

http://www.cdc.gov/h1n1flu/post_mortem.htm

[ARCHIVE] Previous CDC documents and updates available from:
<http://www.cdc.gov/h1n1flu/guidance/>

Center for Infectious Disease Research and Policy

NEW [MAY 29] Novel H1N1 Influenza (Swine Flu)
<http://www.cidrap.umn.edu/cidrap/content/influenza/swineflu/biofacts/swinefluoverview.html>

[ARCHIVE] Older updates from CIDRAP available at:
<http://www.cidrap.umn.edu/cidrap/content/influenza/swineflu/index.html>

Health Protection Agency (UK)

NEW [MAY 29] Confirmed swine flu cases in UK: **215**
http://www.hpa.org.uk/web/HPAweb&HPAwebStandard/HPAweb_C/1243581469523

NEW [MAY 29] Standard practical advice for investigating individuals with possible swine influenza
http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1241048770758

NEW [MAY 29] Summary of prescribing guidance for the treatment and prophylaxis of influenza-like illness: CONTAINMENT
http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1243581475043

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

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

NEW [MAY 29, 17:00] Situation report: **480** confirmed cases in EU/EFTA countries
Developments in the past 24 hours:

Twenty-four new confirmed cases in EU and EFTA countries;
Estonia reported its first case in a returning traveller from New York, USA;
Twelve new cases from the UK of which 11 are related to in-country transmission;
Two new cases reported from Belgium, six from France, one from Slovakia and Greece each;
First confirmed cases reported from Bolivia (2), Venezuela (1) and Paraguay (5);
Six more deaths reported from Mexico.

http://www.ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090529_1700hrs.pdf

[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)

[MAY 29] WHO Update 41: 53 countries have officially reported 15,510 cases of influenza A(H1N1) infection, including 99 deaths.

http://www.who.int/csr/don/2009_05_29/en/index.html

[MAY 26] Today's WHO Outbreak Map

http://www.who.int/csr/don/GlobalSubnationalMaster_20090526_0800.jpg

[MAY 27] Availability of a candidate reassortant vaccine virus for the novel influenza A (H1N1) vaccine development: NIBRG-121

http://www.who.int/csr/resources/publications/swineflu/2009_05_27_NIBRG121a.pdf

[MAY 27] Availability of a candidate reassortant vaccine virus for the novel influenza A (H1N1) vaccine development: X-179A

http://www.who.int/csr/resources/publications/swineflu/2009_05_27_X179Aa.pdf

[MAY 27] Availability of a candidate reassortant vaccine virus for the novel influenza A (H1N1) vaccine development: IDCDC-RG15

http://www.who.int/csr/resources/publications/swineflu/2009_05_27IDCDCRG15a.pdf

[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)



[MAY 28] Influenza A(H1N1) Regional Report (Epidemiological)

Up to 28 May 2009, **14,400 confirmed cases** of the new virus influenza A (H1N1) infection, including **103 deaths**, have been notified in **17 countries** of the Americas: Argentina, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras Mexico, Panama, Peru, United States and Uruguay.

http://new.paho.org/hq/index.php?option=com_content&task=view&id=1431&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

[MAY 22] 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

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

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/>



Eurosurveillance

2009 May 28: 14(21)
<http://www.eurosurveillance.org/>

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 attention turns to the tropics
<http://www.nature.com/news/2009/090527/full/459490a.html>

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



M. Lipsitch, et al. Managing and Reducing Uncertainty in an Emerging Influenza Pandemic *NEJM* 2009 May 28: 360(22)
ONLINE FIRST [Free Full Text](#)



V. Trifonov, et al. Geographic Dependence, Surveillance, and Origins of the 2009 Influenza A (H1N1) Virus *NEJM* 2009 May 28: 360(22)
ONLINE FIRST [Free Full Text](#)

Garten Rj et al. Antigenic and Genetic Characteristics of Swine-Origin 2009 A(H1N1) Influenza Viruses Circulating in Humans. Published Online May 22, 2009 *Science* DOI: 10.1126/science.1176225. Abstract only.
<http://www.sciencemag.org/cgi/content/abstract/1176225>

Hobday RA, Cason. The Open-Air Treatment of Pandemic Influenza. *Am J Public Health*. 2009 May 21. [Epub ahead of print]
<http://www.ajph.org/cgi/content/abstract/AJPH.2008.134627v1>

Serum Cross-Reactive Antibody Response to a Novel Influenza A (H1N1) Virus After Vaccination with Seasonal Influenza Vaccine. 2009 May 22;58(19):521-524.
<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5819a1.htm>

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>

R. Proff et al. Case-based Surveillance of Influenza Hospitalizations during 2004–2008, Colorado, USA. 2009 June;15(6):892-898.
<http://www.cdc.gov/eid/content/15/6/pdfs/892.pdf>

P.K.C. Cheng et al. Oseltamivir- and Amantadine-Resistant Influenza Viruses A (H1N1). 2009 June;15(6):966-968.
<http://www.cdc.gov/eid/content/15/6/pdfs/966.pdf>

L.J. Radonovich et al. Stockpiling Supplies for the Next Influenza Pandemic. 2009 June;15(6): online only.
<http://www.cdc.gov/eid/content/15/6/e1.htm>

Shetty P. Preparation for a pandemic: influenza A H1N1. Lancet Infectious Diseases. 2009 June;9(6):339-340. Abstract only.

[http://www.lancet.com/journals/laninf/article/PIIS1473-3099\(09\)70130-6/fulltext](http://www.lancet.com/journals/laninf/article/PIIS1473-3099(09)70130-6/fulltext)

Putting influenza A H1N1 in its place [editorial]. The Lancet Infectious Diseases. 2009 June;9(6):331. Abstract only.

[http://www.thelancet.com/journals/laninf/article/PIIS1473-3099\(09\)70134-3/fulltext](http://www.thelancet.com/journals/laninf/article/PIIS1473-3099(09)70134-3/fulltext).

Cohen J. Past Pandemics Provide Mixed Clues to H1N1's Next Moves. Science. 2009 May 22;324:996-997. Abstract only.

<http://tinyurl.com/scienceh1n1>

Historical Resources

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>