

H1N1 Flu Virus (Human Swine Influenza) Information Resources

(last updated June 3rd, 2009 at 5pm)

Overview

- Confirmed cases in Ontario as of **June 3, 3pm**: 894
- Confirmed cases in Canada as of **June 1**: 1530 (incl. 1 death in AB, 1 in Ontario)
- Confirmed cases worldwide as of **June 3, 6am GMT**: 19,273 (incl. 117 deaths)
 - WHO pandemic level: 5
- WHO interim assistant director-general for health security and environment says world is "getting closer to Phase 6." After consulting with experts from 23 countries at a meeting on June 1, WHO decided to hold on to its geographical definition of phase 6, requiring evidence of rapid spread in more than one WHO region. Read a [summary](#) or the [full story](#).
- The United Nations also urges that the threat of A(H1N1) becoming a pandemic virus is even greater than it was two or three or four weeks ago. Read the [full story](#).

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

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Live Searches, News Feeds and Disease Tracking Tools

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Events

Upcoming



[JUNE 4] Briefing on A(H1N1) influenza outbreaks by Dr. Jon K. Andrus, Pan American Health Organization. Registration not required.
Canadian Toll-Free Number: 1-866-682-1172
Questions can also be sent by email: pressconference@paho.org
http://new.paho.org/hq/index.php?option=com_content&task=view&id=1458&Itemid=1

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)



[JUNE 3] 268 New Confirmed Cases of H1N1 Flu Virus in Ontario

There are 268 new confirmed cases of H1N1 flu virus since Friday, bringing the total number of cases in Ontario to 894. Almost all of the cases reported to date are considered mild. The vast majority of these cases have recovered and public health officials estimate that about 150 people are currently sick.

Two people, who had the H1N1 virus and chronic medical conditions, have died. Six people who have the H1N1 flu virus were in hospital as of June 2, a number of whom have underlying medical conditions.

The Ontario cases involve 454 males and 436 females (the gender of four 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	123	436
Peel Region	54	152
York Region	44	126
Halton	10	72
City of Ottawa	18	37
Durham Region	9	25

Simcoe Muskoka District	1	10
Hamilton	2	8
Wellington Dufferin Guelph	2	6
Windsor Essex	0	5
Middlesex-London	3	4
Sudbury and District	0	3
Waterloo Region	0	3
Niagara Region	0	1
Oxford County	0	1
Leeds, Grenville & Lanark	0	1
Hastings and Prince Edward Counties	0	1
Grey Bruce	1	1
Northwestern	1	1
Out of province (*)	0	2
TOTAL	268	894

(*) – 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/un/nr_20090603.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)



[JUNE 1] As of June 1, a total of 1,530 laboratory-confirmed cases of H1N1 flu virus have been reported in 9 provinces and 3 territories in Canada.

Province / Territory	New Confirmed Cases	Total Confirmed Cases	Total Deaths
British Columbia	10	132	0
Alberta	5	126	1
Saskatchewan	30	153	0
Manitoba	0	11	0
Ontario	89	715	1

Quebec	56	309	0
New Brunswick	0	2	0
Nova Scotia	0	73	0
Prince Edward Island	0	3	0
Newfoundland	0	0	0
Yukon	0	1	0
Northwest Territories	1	1	0
Nunavut	3	4	0
TOTAL	194	1530	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)

NEW [JUNE 3, 11am] Confirmed and probable cases in the US: 11054 (incl. 17 deaths)
<http://www.cdc.gov/h1n1flu/update.htm>

NEW [JUNE 3] H1N1 Flu (Swine Flu): Resources for the Deaf and Hard of Hearing
<http://www.cdc.gov/h1n1flu/deaf.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 [JUNE 3] 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 [JUNE 3] Confirmed swine flu cases in UK: **381**
 18 further patients under investigation in England have today been confirmed with swine flu. Together with the 23 cases in Scotland

announced yesterday (Tuesday June 02 2009) by the Scottish Executive and one in Northern Ireland announced by the Northern Ireland Executive this brings the current total number of confirmed UK cases to 381.

http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb_C/1244023925975?p=1231252394302



[JUNE 3] Updated: Standard practical advice for investigating individuals with possible swine influenza infection (PDF, 269 KB)

http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1241048770758



[JUNE 3] Updated: Algorithm S5(a): Algorithm for the management of suspected cases of swine influenza (A/H1N1v)

http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1240732819361



[JUNE 2] Guidance on the management of contacts of a probable or confirmed case on swine influenza on an aircraft

http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1243928267943

[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



[JUNE 3] Situation report: **711** confirmed cases in EU/EFTA countries
Developments in the past 24 hours:

- 106 new cases confirmed from EU and EFTA countries of which 84 from the UK
- Nicaragua, Bermuda, Saudi Arabia and Egypt confirmed their first cases today
- 803 new cases are reported from non EU and EFTA countries
- Assessment and response in the EU and EFTA countries
- The rapid evolution of influenza A (H1N1)
- Current issues related to pandemic vaccine development

http://ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090603_1700hrs.pdf

[JUNE 1] Executive Science Update No. 7: ECDC's reponse to influenza A(H1N1)
http://www.ecdc.europa.eu/en/Insight_Exec_Sci_update/Files/Executive_Science_Update_June_2009.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)

NEW [JUNE 3] Update 43: 66 countries have officially reported 19,273 cases of influenza A(H1N1) infection, including 117 deaths.
http://www.who.int/csr/don/2009_06_03/en/index.html

NEW [JUNE 3] Today's WHO Outbreak Map
http://www.who.int/csr/don/H1N1_20090603_0930.jpg

NEW [JUNE 2] Transcript of virtual press conference with Gregory Hartl, WHO Spokesperson for Epidemic and Pandemic Diseases, and Dr Keiji Fukuda, Assistant Director-General ad Interim for Health Security and Environment
http://www.who.int/entity/mediacentre/influenzaAH1N1_presstranscript_20090602.pdf

[MAY 28] Update of WHO biosafety risk assessment and guidelines for the production and quality control of human influenza pandemic vaccines
http://www.who.int/biologicals/publications/trs/areas/vaccines/influenza/H1N1_vaccine_production_biosafety_SHOC.27May2009.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)

NEW [JUNE 2] Influenza A(H1N1) Regional Report
Up to 2 June 2009, 17,482 confirmed cases of the new virus influenza A (H1N1) infection, including 117 deaths, have been notified in 23 countries of the Americas: Argentina, Bahamas, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Jamaica, Mexico, Nicaragua, Paraguay, Panama, Peru, United States, Uruguay and Venezuela.

In the Americas Region, there were 88 additional confirmed cases compared to the previous day. No new deaths were notified. Nicaragua reported its first case of Influenza A (H1N1).

http://new.paho.org/hq/index.php?option=com_content&task=view&id=1455&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 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>