

H1N1 Flu Virus (Human Swine Influenza) Information Resources

(last updated June 12th, 2009 at 4pm)

Overview

- Confirmed cases in Ontario as of **June 12, 3pm**: 1781(2 deaths)
- Confirmed cases in Canada as of **June 10**: 2978 (incl. 1 death in AB, 2 in Ontario, 1 in Quebec)
- Confirmed cases worldwide as of **June 12, 6am GMT**: 29,669 (incl. 145 deaths)
 - **WHO pandemic level: 6**
 - [JUNE 11] **World now at the start of 2009 influenza pandemic**
http://www.who.int/mediacentre/news/statements/2009/h1n1_pandemic_phase6_20090611/en/index.html
- B.C. Perinatal H1N1 guidelines [here](#)
- Novartis produces swine flu vaccine. The Swiss pharmaceutical company Novartis says it has produced a first batch of a vaccine to fight the H1N1 swine flu virus, weeks ahead of expectations.
<http://www.voanews.com/english/2009-06-12-voa12.cfm>

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[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>

[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

[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 12] Dr. David Williams, Ontario's Acting Chief Medical Officer of Health, says there are 143 new confirmed cases of H1N1 flu virus since Thursday, bringing the total number of cases in Ontario to 1,781.

Almost all of the cases reported to date are considered mild. The vast majority of these cases have recovered.

To date, two people, who had the H1N1 virus and chronic medical conditions, have died. Ten people who have the H1N1 flu virus were in hospital as of June 9, a number of whom have underlying medical conditions.

The Ontario cases involve 908 males and 869 females (the gender of four cases is unknown) with an age range of 1 < to 97. The average age of the cases is 21.

The Ministry of Health and Long-Term Care recently provided updated guidance to health care providers on who should be tested for the H1N1 virus. Providers have been asked to only have tests performed on patients requiring hospitalization and on patients at high risk of complications from the flu.

A review of Ontario laboratory tests shows the majority of people who get tested do not have either seasonal or H1N1 flu. There is little use for routine testing since it does not alter the treatment of mild cases.

A more focused approach to testing at this point enables Ontario's public health laboratory system to expedite testing for hospitalized cases and cases of suspected outbreaks.

The breakdown of the cases by health unit is as follows :

Health Unit	New Confirmed Cases	Total Confirmed Cases
Toronto	43	734
Peel Region	42	347
York Region	33	282
Halton	6	140
City of Ottawa	10	130
Durham Region	1	62
Simcoe Muskoka District	0	17
Hamilton	1	11
Wellington Dufferin Guelph	2	13
Windsor Essex	0	5
Waterloo Region	0	5
Middlesex-London	1	5
Sudbury and District	1	4
Niagara Region	2	3
Hastings and Prince Edward Counties	0	2
Kingston, Frontenac, Lennox and Addington	0	2
Leeds, Grenville & Lanark	0	2
Haliburton, Kawartha, Pine Ridge	0	4
Northwestern	2	4
Haldimand Norfolk	1	1
Oxford County	0	1
Grey Bruce	0	1
Perth	1	1
Eastern Ontario	0	1

Out of province (*)	0	4
TOTAL	143	1,781

(*) – 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_20090612.html

Ontario remains vigilant on pandemic preparedness

http://www.health.gov.on.ca/english/media/news_releases/archives/nr_09/un/nr_20090611.html

Important Health Notices



H1N1 Update June 11, 2009

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

[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

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 10] As of June 8, a total of 2,978 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	6	151	0
Alberta	24	195	1
Saskatchewan	11	221	0
Manitoba	16	56	0
Ontario	339	1562	2
Quebec	64	611	1

New Brunswick	0	2	0
Nova Scotia	2	78	0
Prince Edward Island	0	3	0
Newfoundland	0	0	0
Yukon	0	1	0
Northwest Territories	0	2	0
Nunavut	71	96	0
TOTAL	533	2978	4

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

[June 11] Canada Ready as World Health Organization moves to Phase Six Pandemic Alert

http://www.phac-aspc.gc.ca/media/nr-rp/2009/2009_0611-eng.php

[June 8] Annex B Influenza Pandemic Planning Considerations in On Reserve First Nations Communities

http://www.phac-aspc.gc.ca/cpip-pclcpi/pdf-e/annex_b-eng.pdf

[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 will now post case count updates on Friday only

[JUNE 12, 11am] Confirmed and probable cases in the US: **17,855** (incl. 45 deaths) Section also includes an updated summary of H1N1 in the U.S.

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

[June 11] Webcast: US response to pandemic declaration

<http://www.cdc.gov/h1n1flu/webcast061109.htm>

[June 11] Statements by HHS Secretary Kathleen Sebelius and DHS Secretary Janet Napolitano on WHO Decision to Declare Novel H1N1 Virus Outbreak a Pandemic

<http://www.cdc.gov/h1n1flu/statement061109.htm>

[ARCHIVE] Previous CDC documents and updates available from:

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

Center for Infectious Disease Research and Policy

[JUNE 10] 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 12] Confirmed swine flu cases in UK: **921**
http://www.hpa.org.uk/web/HPAweb&HPAwebStandard/HPAweb_C/1244763935549

[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

NEW [JUNE 12] Situation report: **1565** confirmed cases in EU/EFTA countries
Developments in the past 24 hours:
WHO declares Pandemic alert level 6
126 new cases confirmed from EU and EFTA countries;
1224 new cases are reported from non EU and EFTA countries;
http://www.ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090611_1700hrs.pdf

NEW [JUNE 12] Seasonal Influenza – European status
http://www.ecdc.europa.eu/en/health_content/episu/090612_EISS.aspx

[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 12] Update 48: : As of 07:00 GMT, 12 June 2009, **74** countries have officially reported **29,669** cases of influenza A(H1N1) infection, including **145** deaths.
http://www.who.int/csr/don/2009_06_12/en/index.html

NEW [JUNE 11] Flu pandemic alert raised to phase 6
http://www.who.int/csr/don/GlobalSubnationalMasterGradSym_20090612_0800.png



[JUNE 12] Today's WHO Outbreak Map

http://www.who.int/csr/don/GlobalSubnationalMasterGradSym_20090612_0800.png

[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 11] Influenza A(H1N1) Regional Report

As of June 11, **25,463 confirmed cases** of the new virus influenza A (H1N1) infection, including **145 deaths**, have been notified in **26 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, United States, Trinidad and Tobago, Uruguay and Venezuela.

In the Americas Region, **there were 637 additional confirmed cases** compared to the previous day. **Guatemala notified its first death** caused by the new influenza A (H1N1) virus.

http://new.paho.org/hq/index.php?option=com_content&task=view&id=1493&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 '09] 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

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/>

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. [Click here to contact PHD library for full text access](#)

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

NEW

Laetitia Ninove, Céline Gazin, Ernest A. Gould, Antoine Nougairède, Antoine Flahault, Rémi N. Charrel, Christine Zandotti, Xavier de Lamballerie. Vector-Borne and Zoonotic Diseases. -Not available-, ahead of print. doi:10.1089/vbz.2009.0110.

<http://www.liebertonline.com/doi/pdf/10.1089/vbz.2009.0110?cookieSet=1>

NEW

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>

NEW

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

NEW

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>

Development of antivirals to disrupt both neuraminidase and hemagglutinin]. *Scientific American* -

<http://www.scientificamerican.com/article.cfm?id=knocking-out-the-flu>

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

M. Lipsitch, et al. Managing and Reducing Uncertainty in an Emerging Influenza Pandemic *NEJM* 2009 May 28: 360(22)

<http://content.nejm.org/cgi/reprint/NEJMp0904380v2.pdf>

V. Trifonov, et al. Geographic Dependence, Surveillance, and Origins of the 2009 Influenza A (H1N1) Virus *NEJM* 2009 May 28: 360(22)

<http://content.nejm.org/cgi/reprint/NEJMp0904572v1.pdf>

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

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>