

H1N1 Flu Virus (Human Swine Influenza)

Information Resources

(last updated June 8th, 2009 at 5pm)

Overview

- Confirmed cases in Ontario as of **June 8, 3pm**: 1223 (2 deaths)
- Confirmed cases in Canada as of **June 8**: 2446 (incl. 1 death in AB, 2 in Ontario, 1 in Quebec)
- Confirmed cases worldwide as of **June 8, 6am GMT**: 25,288 (incl. 125 deaths)
 - WHO pandemic level: 5
- WHO GENEVA, June 5 (Reuters) - World Health Organisation Director-General Margaret Chan is holding an emergency meeting on Friday to discuss the severity of H1N1 flu outbreaks, but no decision is expected on moving to the top level of pandemic alert, a WHO spokeswoman said. "The agenda is not to decide on phase 6," WHO spokeswoman Fadela Chaib told a news briefing in Geneva.
- The Trust for America's Health (TFAH), the Center for Biosecurity, and the Robert Wood Johnson Foundation (RWJF) analyze the initial response to the H1N1 outbreak, *Pandemic Flu: Lessons From the Frontlines*, which found that U.S. officials executed strong coordination and communication and an ability to adapt to changing circumstances, but it also how quickly the nation's core public health capacity would be overwhelmed if an outbreak were more severe or widespread. Read the [full story](#).
- B.C. Perinatal H1N1 guidelines [here](#)

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Events

Upcoming



[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)*** on Tuesday, June 9, 2009 from 1:00 to 2:30 p.m. ET.

CALL-IN NUMBER: 888-283-2960
PASSCODE: 1690913

The PowerPoint Presentation will be available on the COCA website prior to the call:

<http://emergency.cdc.gov/coca/callinfo.asp>

Archived

[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 8] 1,223 Confirmed Cases of H1N1 Flu Virus in Ontario

[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

Important Health Notice June 4, 2009

http://www.health.gov.on.ca/english/providers/program/emu/health_notice/s/ihn_20090603.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 8] As of June 8, a total of 2,446 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	3	145	0
Alberta	22	172	1
Saskatchewan	31	210	0
Manitoba	0	40	0
Ontario	145	1223	2
Quebec	110	547	1
New Brunswick	0	2	0
Nova Scotia	1	76	0
Prince Edward Island	0	3	0
Newfoundland	0	0	0
Yukon	0	1	0
Northwest Territories	0	2	0
Nunavut	19	25	0
TOTAL	331	2446	4

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

[June 5] Canada announces funding for research to further protect Canadians from the H1N1 virus

<http://www.cihr.gc.ca/e/39485.html>

[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 5, 11am] Confirmed and probable cases in the US: 13217 (incl. 27 deaths)

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

[JUNE 5] Interim Novel Influenza A (H1N1) Guidance for Cruise Ships.

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

[JUNE 5] Interim Guidance for Airlines Regarding Flight Crews Arriving from Domestic and International Areas Affected by Swine Influenza

<http://www.cdc.gov/h1n1flu/guidance/air-crew-dom-intl.htm>

[ARCHIVE] Previous CDC documents and updates available from:

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

Center for Infectious Disease Research and Policy



[JUNE 8] 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)



[JUNE 5] Confirmed swine flu cases in UK: **621**

http://www.hpa.org.uk/web/HPAweb&HPAwebStandard/HPAweb_C/1244442480991

[JUNE 5] Summary of prescribing guidance for the treatment and prophylaxis of influenza-like illness: CONTAINMENT PHASE

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



[JUNE 8] Situation report: **1164** confirmed cases in EU/EFTA countries
Developments in the past 24 hours:

108 new cases confirmed from EU and EFTA countries;
284 new cases are reported from non EU and EFTA countries;
The first cases were reported by Martinique (overseas territory France) and
Dominica;

http://www.ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090608_1700hrs.pdf



[JUNE 6] Mitigation and delaying (or 'containment') strategies as the new
influenza A(H1N1) virus comes into Europe

http://www.ecdc.europa.eu/en/files/pdf/Health_topics/090606_Delaying_vs_Mitigation_Interim_ECDC_Guidance.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)



[JUNE 8] Update 45: : As of 06:00 GMT, 8 June 2009, **73** countries have
officially reported **25,288** cases of influenza A(H1N1) infection, including
139 deaths.

http://www.who.int/csr/don/2009_06_08/en/index.html



[JUNE 8] Today's WHO Outbreak Map

http://www.who.int/csr/don/Map_20090608_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 7] Influenza A(H1N1) Regional Report

As of 7 June 2009, **22,309 confirmed cases** of the new virus influenza A (H1N1) infection, **including 139 deaths**, have been notified in **26 countries of the Americas and one overseas territory**: Argentina, Bahamas, Barbados, Bolivia, Brazil, Canada, Cayman Islands (U.K.), 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.

http://new.paho.org/hq/index.php?option=com_content&task=view&id=1480&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-vqj-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.

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



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>