

H1N1 Flu Virus (Human Swine Influenza)

Information Resources

(last updated May 21st, 2009, 12pm)

Overview

- Confirmed cases in Ontario as of **May 20, 3pm**: 272
 - All of the cases reported to date, with the exception of two, are considered mild. Two people, who have the H1N1 flu virus, have been hospitalized with a number of underlying medical conditions.
 - The Ontario cases involve 138 males and 130 females (further information still pending from four other cases) with an age range of 1 to 86.
- Confirmed cases in Canada as of **May 20, 3pm**: 719 (1 death in AB)
- Confirmed cases worldwide as of **May 21, 6am GMT**: 11 034 (incl. 85 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

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[Center for Infectious Disease Research & Policy](#)

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[United Kingdom's Health Protection Agency \(HPA\)](#)
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Live Searches, News Feeds and Disease Tracking Tools

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Events

Upcoming

Nothing of interest.

Archived

Sunday, 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. Over 6,500 delegates from around the globe registered for the meeting. Speakers at the session were Albert Osterhaus (Rotterdam, Netherlands) and Javier Garau (Barcelona, Spain). Video highlights available at www.TheLancet.com/H1N1-flu.

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)



85 New Confirmed Cases of H1N1 Flu Virus In Ontario [May 20]
Total number of cases in Ontario as of May 15/09 at 5pm: 272

All of the cases reported to date, with the exception of two, are considered mild. Two people, who have the H1N1 flu virus, have been hospitalized with a number of underlying medical conditions.

The Ontario cases involve 138 males and 130 females (further information still pending from four other cases) with an age range of 1 to 86. The breakdown by health unit is as follows:

Health Unit	New Confirmed Cases	Total Confirmed Cases
Toronto	37	110
Peel Region	18	41
York Region	11	38
Halton	10	34
City of Ottawa	6	13
Durham Region	0	10
Windsor Essex	0	5
Simcoe Muskoka District	2	4
Waterloo Region	0	3
Sudbury and District	0	3
Hamilton	0	3
Wellington Dufferin Guelph	1	2
Oxford County	0	1
Leeds, Grenville & Lanark	0	1

Middlesex-London	0	1
Hastings and Prince Edward Counties	0	1
Out of province (*)	0	2
TOTAL	85	272

(*) – 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_20090520.html

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

Information for Health Professionals: Update [May 19]

http://www.health.gov.on.ca/english/providers/program/emu/health_notice_s/ihn_20090519.pdf

Ontario Agency for Health Protection and Promotion (OAHPP)

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 20 2009, a total of 719 laboratory-confirmed cases (including 1 death) of H1N1 flu virus have been reported in 9 provinces and 1 territory in Canada [May 20]

As of May 19, 2009, half the cases are 33 years of age or younger (median: 33 years; range: <1 – 86 years). To date, 16 cases have been hospitalized and one death has been reported. The most recent date of symptom onset is May 15, 2009.

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	New Confirmed Cases	Total Confirmed Cases
British Columbia	14	114
Alberta	19	86
Saskatchewan	30	49
Manitoba	2	6

Ontario	97	284
Quebec	59	106
New Brunswick	0	2
Nova Scotia	2	68
Prince Edward Island	0	3
Newfoundland	0	0
Yukon	0	1
Northwest Territories	0	0
Nunavut	0	0
TOTAL	223	719

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

News release: Federal Government Provides Update on H1N1 Flu Virus [May 20]

http://www.phac-aspc.gc.ca/media/nr-rp/2009/2009_0520_h1n1-eng.php

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)



Confirmed and probable cases in the US [May 20, 11am]: 5,764 (9 deaths)
Status: Public Health Emergency

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



Translations of the following guidance documents into Arabic, French, Russian and Simplified Chinese (note: most CDC resources on H1N1 are also available in Spanish).

H1N1 flu (swine flu): information for concerned parents and caregivers

Arabic: http://www.cdc.gov/h1n1flu/Arabic/parents_AR.pdf

French: http://www.cdc.gov/h1n1flu/Francais/parents_FR.pdf

Russian: http://www.cdc.gov/h1n1flu/Russian/parents_RU.pdf

Simplified Chinese:

http://www.cdc.gov/h1n1flu/Simplified_Chinese/parents_SCH.pdf

H1N1 flu (swine flu) and you:

Arabic: http://www.cdc.gov/h1n1flu/Arabic/qa_AR.pdf

French: http://www.cdc.gov/h1n1flu/Francais/qa_FR.pdf

Russian: http://www.cdc.gov/h1n1flu/Russian/qa_RU.pdf

Simplified Chinese:

http://www.cdc.gov/h1n1flu/Simplified_Chinese/qa_SCH.pdf

Questions and answers: key facts about swine influenza

Arabic: http://www.cdc.gov/h1n1flu/Arabic/key_facts_AR.pdf
French: http://www.cdc.gov/h1n1flu/Francais/key_facts_FR.pdf
Russian: http://www.cdc.gov/h1n1flu/Russian/key_facts_RU.pdf
Simplified Chinese:
http://www.cdc.gov/h1n1flu/Simplified_Chinese/key_facts_SCH.pdf

Hospitalized Patients with Novel Influenza A (H1N1) Virus Infection ---
California, April--May, 2009, May 18, 2009 / 58(Early Release);1-5
http://www.cdc.gov/mmwr/preview/mmwrhtml/mm58e0518a1.htm?s_cid=r58e0518a1_e

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

Center for Infectious Disease Research and Policy

Updated H1N1 Overview [May 20]
<http://www.cidrap.umn.edu/cidrap/content/influenza/swineflu/biofacts/swinefluoverview.html>

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

Health Protection Agency (UK)

NEW Update on confirmed swine flu cases in UK – **109** confirmed [May 20]
http://www.hpa.org.uk/web/HPAweb&HPAwebStandard/HPAweb_C/1242804157282?p=1231252394302

NEW Managing a flu-like illness in a boarding school during the current swine flu outbreak (WHO Phase 5; UK Containment Phase)
http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1242549140578

NEW Classification of Swine Influenza Cases [May 20]
http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1242804165710

NEW Managing influenza-like illness (ILI) in nursing and residential homes during the current swine influenza outbreak (WHO Phase 5; UK containment phase) [May 19]
http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1242804139580

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

European Centre for Disease Prevention and Control (ECDC)



Situation report [May 20 at 17:00]: **269** confirmed cases

As of today 20 May, the time of the ECDC daily updates will be changed to 17:00 hours in stead of 8:00 hours. Therefore, exceptionally the changes since the previous update cover only 9 hours and not the usual 24 hours.

Developments in the past 9 hours:

4 new cases reported from EU and EFTA countries;

ECDC guidance documents updated;

Recommendations from WHO experts on new influenza A(H1N1) vaccine.

http://www.ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090520_1700hrs.pdf

Frequently asked questions on influenza A(H1N1) virus

http://www.ecdc.europa.eu/en/files/pdf/Health_topics/0905_Influenza_AH1N1_FAQ.pdf

Information for travellers regarding the new influenza A (H1N1)

[http://www.ecdc.europa.eu/en/files/pdf/Health_topics/090519_Influenza_A\(H1N1\)_Info_for_travellers.pdf](http://www.ecdc.europa.eu/en/files/pdf/Health_topics/090519_Influenza_A(H1N1)_Info_for_travellers.pdf)



Personal protective measures – in a many languages from EU countries

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

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)



Update 35 [May 21, 06:00 GMT]

41 countries have officially reported 11 034 cases of influenza A(H1N1) infection, including 85 deaths.

http://www.who.int/csr/don/2009_05_21/en/index.html



WHO Map for May 21

http://www.who.int/csr/don/h1n1_20090521_0600.jpg

Recommendations of the Strategic Advisory Group of Experts (SAGE) on Influenza A (H1N1) vaccines [May 19]

http://www.who.int/csr/resources/publications/swineflu/SAGEH1N1vaccine_recommendation2009_05_19.pdf

WHO H1N1 Guidance documents:

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

For older updates, see

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

Pan-American Health Organization (PAHO)



General recommendations for the organisation of health facilities in countries where cases of influenza A(H1N1) virus have not yet been reported [May 20]

http://new.paho.org/hq/index.php?option=com_docman&task=doc_download&gid=1384&Itemid=



General recommendations for clinical management of influenza A(H1N1) infection cases [May 20]

http://new.paho.org/hq/index.php?option=com_docman&task=doc_download&gid=1529&Itemid=



General recommendations for the organization of health care facilities for the care of influenza A(H1N1) cases [May 20]

http://new.paho.org/hq/index.php?option=com_docman&task=doc_download&gid=1533&Itemid=



Influenza A(H1N1) Regional Report (Epidemiological) [May 18]

Up to 20 May 2009, **10,061 confirmed cases** of the new virus influenza A (H1N1) infection, including **84 deaths**, have been notified in **14 countries** of the Americas: Argentina, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Ecuador, El Salvador, Guatemala, Mexico, Panama, Peru and the United States.

http://new.paho.org/hq/index.php?option=com_content&task=view&id=1390&Itemid=1167

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

<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>

Veratect on Twitter: tracking the swine influenza event with up-to-the-minute information about potential spread of the disease to aid in early response efforts

<http://twitter.com/Veratect>

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

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>

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/>

Lancet

H1N1 Flu Resource Centre [May 13]
Site 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>



Essay: Pandemics: avoiding the mistakes of 1918
<http://www.nature.com/nature/journal/v459/n7245/full/459324a.html>



Commentary: Pandemics: Good hygiene is not enough
<http://www.nature.com/nature/journal/v459/n7245/full/459322a.html>



Things to say when a pandemic seems imminent
http://www.nature.com/nature/journal/v459/n7245/box/459322a_BX1.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



Makes Disease Briefing on Influenza Covering H1N1 (Swine Flu) Publicly Available
<http://science.thomsonreuters.com/pharma/h1n1/>

New & Notable Research Articles

Cheng PKC, Leung TWC, Ho ECM, Leung PCK, Ng AYY, Lai MYY, et al. Oseltamivir- and amantadine-resistant influenza viruses A (H1N1). Emerg Infect Dis. 2009 Jun; [Epub ahead of print]
<http://www.cdc.gov/eid/content/15/6/pdfs/08-1357.pdf>

Novel Swine-Origin Influenza A (H1N1) Virus Investigation Team. Emergence of a Novel Swine-Origin Influenza A (H1N1) Virus in Humans N Engl J Med. 2009 May 7. [Epub ahead of print]
<http://content.nejm.org/cgi/reprint/NEJMoa0903810.pdf>

Shinde V, Bridges CB, Uyeki TM, et al. Triple-Reassortant Swine Influenza A (H1) in Humans in the United States, 2005–2009. N Engl J Med. 2009 May 7. [Epub ahead of print].
<http://content.nejm.org/cgi/reprint/NEJMoa0903812.pdf>

Fraser C. et al. Pandemic Potential of a Strain of Influenza A (H1N1) : Early Findings. Science. 2009 May 11. [Epub ahead of print]. [Abstract only].
<http://www.sciencemag.org/cgi/content/abstract/sci;1176062v1?maxtoshow=&>

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>