

H1N1 Flu Virus (Human Swine Influenza)

Information Resources

(last updated May 14th, 2009, 5pm)

Overview



- Confirmed cases in Ontario as of May 14, 3pm: **155**
 - The total number of confirmed cases in Ontario is 119. All cases reported to date are considered mild. The Ontario cases involve 62 males and 57 females with an age range of 1 to 62.



- Confirmed cases in Canada as of May 14, 3pm: **449** (1 death in AB)
- Confirmed cases worldwide as of May 14, 11am: **6497** (incl. 61 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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United States

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Live Searches, News Feeds and Disease Tracking Tools

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[Lancet](#)
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Events

Upcoming

Monday May 18, 3 – 4:30pm EST: H1N1—Where do we go from here? An exclusive question-and-answer session with pandemic influenza, legal, and HR experts. This is an opportunity to directly pose critical questions to credible experts and hear challenges your peers are facing (US focused). Live polls will be conducted during the Webinar to provide current benchmarking data. Cost: \$295.

http://online.krm.com/iebms/coe/coe_p2_details.aspx?oc=10&cc=00279763&eventid=15787

Sunday, May 17: *The Lancet* will co-host a late-breaker 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 are re-registered for the ECCMID meeting. Speakers at the session are Albert Osterhaus (Rotterdam, Netherlands) and Javier Garau (Barcelona, Spain). Note: Live video footage will not be broadcast, but video highlights will be available next week at www.TheLancet.com/H1N1-flu.

Archived

Friday May 8, 8pm EST: "The Agenda" on TVO
The science and politics of swine flu with guests:

- Vivek Goel, President and Chief Executive Officer of the Ontario Agency for Health Protection and Promotion.
- Allison McGeer, Microbiologist and Infectious Disease Consultant in the Department of Microbiology at Mount Sinai Hospital.
- Andrew Nikiforuk, Journalist and Author of *Pandemonium: Bird Flu, Mad Cow Disease and Other Biological Plagues of the 21st Century*.
- Peter Singer, Professor of Medicine, Chair in Bioethics, Director of McLaughlin-Rotman Centre for Global Health, University Health Network and University of Toronto.

http://www.tvo.org/cfmx/tvoorg/theagenda/index.cfm?page_id=7

Ministry of Health and Long-Term Care (MOHLTC)



36 New confirmed cases of H1N1 flu in Ontario: All cases mild [May 14]

Total number of cases in Ontario as of May 14/09 at 5pm: 155

One person, who has a mild case of the H1N1 flu virus, has been hospitalized for other medical reasons. The Ontario cases involve 80 males and 74 females (further information still pending from one other case) 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 | 15 | 52 |
| York Region | 4 | 25 |
| Peel Region | 5 | 21 |
| Halton | 7 | 18 |
| Durham Region | 2 | 10 |
| City of Ottawa | 0 | 7 |
| Windsor Essex | 0 | 5 |
| Waterloo Region | 1 | 3 |
| Sudbury and District | 0 | 3 |
| Hamilton | 0 | 2 |
| Simcoe Muskoka District | 0 | 2 |
| Wellington Dufferin Guelph | 0 | 1 |
| Oxford County | 0 | 1 |
| Leeds, Grenville & Lanark | 0 | 1 |
| Middlesex-London | 0 | 1 |
| Hastings and Prince Edward Counties | 0 | 1 |
| Out of province (*) | 2 | 2 |
| TOTAL | 36 | 155 |

(*) – 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_20090514_2.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

[No new IHNs since May 7]

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)



A total of **449 confirmed cases (incl. 1 death)** of H1N1 Flu Virus (Human Swine Flu) have been reported in 9 provinces and 1 territory in Canada

[May 14]

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 | 4 | 96 |
| Alberta | 6 | 67 |
| Saskatchewan | 1 | 17 |
| Manitoba | 0 | 4 |
| Ontario | 36 | 155 |
| Quebec | 12 | 38 |
| New Brunswick | 0 | 2 |
| Nova Scotia | 1 | 66 |
| Prince Edward Island | 0 | 3 |
| Newfoundland | 0 | 0 |
| Yukon | 0 | 1 |
| Northwest Territories | 0 | 0 |
| Nunavut | 0 | 0 |
| TOTAL | 60 | 449 |

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

Updated version of Canadian Pandemic Influenza Plan for the Health Sector—Annex E: The Use of Antiviral Drugs During a Pandemic [May 13]
<http://www.phac-aspc.gc.ca/cpip-pclcpi/ann-e-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 cases in the US as of May 14 (11am): 4298 (3 deaths)
 Status: Public Health Emergency
Note: WHO reports 3352 confirmed cases in the US.
<http://www.cdc.gov/h1n1flu/update.htm>



Novel H1N1 Flu - Creating a Safe and Healthy Workplace [May 14]
 [Listen To This Podcast...](#) (9:37)
 This podcast helps businesses understand how novel H1N1 flu can affect their business and how to keep their workers and worksites safe.



Crisis and Emergency Risk Communications: Best Practices [May 14]

 [Listen To / Watch This Podcast...](#) (7:10)

In this podcast, CDC's Dr. Barbara Reynolds discusses best practices in crisis and emergency risk communication. She characterizes the initial phase of the crisis communication lifecycle and describes the five most common mistakes made in emergency communication to the public and how to counter them.

H1N1 Influenza Virus Biosafety Guidelines for Laboratory Workers [May 13] http://www.cdc.gov/h1n1flu/guidelines_labworkers.htm

CDC urges vigilance for pregnant women with flu symptoms [May 12]
Pregnant women who have confirmed, probable, or suspected novel influenza H1N1 infections should receive antiviral treatment for 5 days. MMWR Dispatch: Novel Influenza A (H1N1) Virus Infections in Three Pregnant Women United States, April--May 2009. May 12, 2009 / 58(Dispatch);1-3.
http://www.cdc.gov/mmwr/preview/mmwrhtml/mm58d0512a1.htm?s_cid=mm58d0512a1_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 14]

<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)

Update on confirmed swine flu cases in UK – 78 confirmed [May 14]
<http://www.hpa.org.uk/web/HPAweb&Page&HPAwebAutoListName/Page/1240732817665?p=1240732817665>

Algorithm P5 – PEP for close contacts of probable or confirmed human case with swine influenza A (H1N1) for phase 5. [Updated May 12]
http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1240986160584

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 14]:

Developments in the past 24 hours:

- 5 new confirmed cases reported from EU and EFTA countries, with first case reported from Belgium;
- Outside EU and EFTA countries, Thailand and Cuba reported their first cases;
- Age-specific attack rates in Mexico indicate that almost all age groups are being equally affected.

http://www.ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090514_0800hrs.pdf

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 28 [May 14]

33 countries have officially reported **6497** cases of influenza A(H1N1) infection. Mexico reports 2446 confirmed human cases (60 deaths); US reports 3352 confirmed human cases (3 deaths); Canada reports 389 confirmed human cases (1 death); Costa Rica reports 8 confirmed human cases (1 death).

The following countries have reported laboratory confirmed cases with no deaths - Argentina (1), Australia (1), Austria (1), Brazil (8), China (4), Colombia (7), Cuba (1), Denmark (1), El Salvador (4), Finland (2), France (14), Germany (12), Guatemala (3), Ireland (1), Israel (7), Italy (9), Japan (4), Netherlands (3), New Zealand (7), Norway (2), Panama (29), Poland (1), Portugal (1), Republic of Korea (3), Spain (100), Sweden (2), Switzerland (1), Thailand (2), and the United Kingdom (71).

http://www.who.int/csr/don/2009_05_14/en/index.html

Assessing the severity of an influenza pandemic [May 11]

http://www.who.int/csr/disease/swineflu/assess/disease_swineflu_assess_20090511/en/index.html

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)

Influenza A(H1N1) Regional Report (Epidemiological) [Posted May 14]
As of May 13, **6,248 confirmed cases** of influenza A (H1N1), including **65 deaths**, have been notified in **11 countries** of the Americas: Argentina, Brazil, Canada, Colombia, Costa Rica, Cuba, El Salvador, Guatemala, Mexico, Panama and the United States. The date of the onset of symptoms of the first confirmed case was 28 March 2009 in the United States.

http://new.paho.org/hq/index.php?option=com_content&task=view&id=1352&Itemid=569

Regional Report

http://new.paho.org/hq/index.php?option=com_docman&task=doc_download&gid=1556

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-vqi-dmo&cof=FORID%3A11&q=swine+flu&sa=search+influenza+sites>

Mapping Resources

WHO Map (5728 confirmed cases, 61 deaths worldwide as of May 14)

http://www.who.int/csr/don/h1n1_20090514_0800.jpg

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

Lancet

To upgrade the level of expert analysis and advice on the prevention, detection, diagnosis, and treatment of the influenza A H1N1 (swine flu), The Lancet today announced the launch of its H1N1 Flu Resource Centre [May 13] (site contains content from numerous Elsevier journals)

<http://www.TheLancet.com/H1N1-flu>

New England Journal of Medicine (NEJM)

NEJM H1N1 Influenza Center

<http://h1n1.nejm.org/>

Newest Items:

- Emergence of a Novel Swine-Origin Influenza A (H1N1) Virus in Humans | [PDF](#)
Triple-Reassortant Swine Influenza A (H1) in Humans in the United States, 2005–2009 | [PDF](#)
- H1N1 Influenza A Disease — Information for Health Professionals | [PDF](#)
- Implications of the Emergence of a Novel H1 Influenza Virus | [PDF](#)
- Digital Disease Detection — Harnessing the Web for Public Health Surveillance | [PDF](#)

- Influenza A (H1N1) Virus, 2009 — Online Monitoring | [PDF](#) | [Interactive Map](#)
- The Signature Features of Influenza Pandemics — Implications for Policy [PDF](#)

American Journal of Epidemiology (AJE)

AJE H1N1 Collection (17 articles freely available)

<http://aje.oxfordjournals.org/collections/>

Epidemiologic Reviews

Epidemiologic Reviews H1N1 Collection (2 articles freely available)

<http://epirev.oxfordjournals.org/collections/>

Science



The Rapid Rise (and Fall?) of Controversial Theory That Lab Accident Caused Flu Outbreak [May 14]

<http://blogs.sciencemag.org/scienceinsider/2009/05/the-rapid-rise.html>

AAAS *Science Insider*: Profile of CDC's "Flu Chief" virologist Nancy Cox

<http://blogs.sciencemag.org/scienceinsider/2009/05/exclusive-cdcs.html>

AAAS *Science Insider*: Swine Flu Outbreak—Day by Day

<http://blogs.sciencemag.org/scienceinsider/2009/05/swine-flu-outbr.html>

Fraser C. et al. Pandemic Potential of a Strain of Influenza A (H1N1) : Early Findings. Published Online May 11, 2009 *Science* DOI: 10.1126/science.1176062 [Abstract only]

<http://www.sciencemag.org/cgi/content/abstract/sci;1176062v1?maxtoshow=&>

Nature



Creating a seed strain for a vaccine against H1N1 [May 14]: "The virus grower"—Immunologist Doris Bucher talks about cultivating the swine flu virus

<http://www.nature.com/news/2009/090514/full/news.2009.482.html>

Interview with Marie-Paul Keany, WHO's vaccine research director

<http://www.nature.com/news/2009/090513/full/news.2009.478.html>

WHO decision-making regarding vaccine development

<http://www.nature.com/news/2009/090512/full/459144a.html>

Medline Literature search on H1N1 (current as of today). Click [here](#) to run a search.

American Society for Microbiology

Research Publications on Influenza A(H1N1) from the American Society for Microbiology are Freely Available

<http://tinyurl.com/asmh1n1>.

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 and H1N: free worldwide access thanks to EBSCO

<http://www.ebscohost.com/dynamed/swineflu/> and

<http://www.ebscohost.com/dynamed/h1n1/>

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

No new advisories issued.