

# H1N1 Flu Virus (Human Swine Influenza)

## Information Resources

(last updated May 12th, 2009, 5 pm)

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### Overview



- Confirmed cases in Ontario as of May 12, 5pm: **113**  
The breakdown of the Ontario cases is as follows:
  - The Ontario cases involve 59 males and 54 females (further information still pending from one case) with an age range of 1 to 62.
  - Provincial monitoring status: Enhanced



- Confirmed cases in Canada as of May 12, 5pm: **358 (1 death)**



- Confirmed cases worldwide as of May 12, 06:00 GMT: **5251** (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

## **Contents**

### [Events](#)

#### Updates by Jurisdiction

##### **Ontario**

[Ontario Ministry of Health and Long-Term Care \(MOHLTC\)](#)  
[Ontario Agency for Health Promotion and Protection \(OAHPP\)](#)

##### **Canada**

[Public Health Agency of Canada \(PHAC\)](#)

##### **United States**

[Centers for Disease Control and Protection \(CDC\)](#)  
[Center for Infectious Disease Research & Policy](#)

##### **Europe**

[United Kingdom's Health Protection Agency \(HPA\)](#)  
[European Centre for Disease Control and Prevention \(ECDC\)](#)

##### **International**

[World Health Organization \(WHO\)](#)  
[Pan American Health Organization \(PAHO\)](#)

#### Live Searches, News Feeds and Disease Tracking Tools

[Google search](#)  
[Mapping resources](#)  
[Twitter feeds](#)

#### Other Resources

[Scientific Resources](#)  
[Consumer Health Resources](#)  
[Historical Resources](#)  
[Travel Advisories](#)

## Events

### Upcoming

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

Grand Rounds Series: Emerging Issue - Novel Influenza A (H1N1) presented by Patricia Quinlisk, M.D., M.P.H. of the Upper Midwest Center for Public Health Preparedness at the University of Iowa College of Public Health. [May 6]

[http://www.public-health.uiowa.edu/icphp/grand\\_rounds/archive/2009/pdf/050609-Quinlisk.pdf](http://www.public-health.uiowa.edu/icphp/grand_rounds/archive/2009/pdf/050609-Quinlisk.pdf)

Transcript and Audio for May 1 CDC Clinician Conference Call on Maternal and Child Health Issues Related to the Current Outbreak of the New Influenza Virus of Swine Origin [May 1]

[http://emergency.cdc.gov/coca/summaries/pdf/InterimH1N1Flu\\_MCH\\_issues050109.pdf](http://emergency.cdc.gov/coca/summaries/pdf/InterimH1N1Flu_MCH_issues050109.pdf)

## Ministry of Health and Long-Term Care (MOHLTC)



News release [May 12]: 3 New Confirmed Cases Of H1N1 Flu Virus in Ontario: All Cases Are Mild.

Dr. David Williams, Ontario's Acting Chief Medical Officer of Health, says there are 3 new confirmed cases of H1N1 flu virus, bringing the total number of cases in Ontario to 113.

The Ontario cases involve 59 males and 54 females with an age range of 1 to 62.

The breakdown by health unit is as follows:

Health Unit	New Confirmed Cases	Total Confirmed Cases
Toronto	0	34
York Region	1	20
Peel Region	0	16
Halton	0	11
Durham Region	0	7
City of Ottawa	1	6
Windsor Essex	0	5
Sudbury and District	0	3
Hamilton	0	2
Simcoe Muskoka District	0	2
Waterloo Region	1	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
<b>TOTAL</b>	<b>3</b>	<b>113</b>

[http://www.health.gov.on.ca/english/media/news\\_releases/archives/nr\\_09/may/nr\\_20090512.html](http://www.health.gov.on.ca/english/media/news_releases/archives/nr_09/may/nr_20090512.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](http://www.health.gov.on.ca/english/public/updates/archives/hu_09/swine_flu.html)

### Important Health Notices

Information on Novel H1N1 Influenza A - Frequently Asked Questions for Primary Care Practitioners [May 7]

[http://www.health.gov.on.ca/english/providers/program/emu/health\\_notices/ihn\\_primarycare\\_faq\\_20090507.pdf](http://www.health.gov.on.ca/english/providers/program/emu/health_notices/ihn_primarycare_faq_20090507.pdf)

Information on the Novel H1N1 Influenza Virus for Primary Care Practitioners [May 7]

[http://www.health.gov.on.ca/english/providers/program/emu/health\\_notices/ihn\\_primarycare\\_fs\\_20090507.pdf](http://www.health.gov.on.ca/english/providers/program/emu/health_notices/ihn_primarycare_fs_20090507.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)



Confirmed cases in Canada as of May 12, 5pm: **358**

Province / Territory	Total Confirmed Cases
BC	83
Alberta	53
Saskatchewan	12
Manitoba	2
Ontario	113
Quebec	25
New Brunswick	2
Nova Scotia	64
PEI	3
Newfoundland	0
Yukon	1
NWT	0
Nunavut	0
<b>TOTAL</b>	<b>358</b>

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

Interim Guidance: Infection prevention and control measures for Health Care Workers in Acute Care Facilities [May 11]

[http://www.phac-aspc.gc.ca/alert-alerte/swine-porcine/pdf/interim\\_guidance\\_infection\\_control-eng.pdf](http://www.phac-aspc.gc.ca/alert-alerte/swine-porcine/pdf/interim_guidance_infection_control-eng.pdf)

Previous PHAC documents and updates available from:

[http://www.phac-aspc.gc.ca/alert-alerte/swine\\_200904-eng.php](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 12: **3009** (3 deaths)

Status: Public Health Emergency

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



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](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm58d0512a1.htm?s_cid=mm58d0512a1_e)



Clinical Data Collection Forms and Templates for Collection of Information on Patients Infected with Novel Influenza A (H1N1)

[http://www.cdc.gov/h1n1flu/clinicians/clinician\\_forms\\_templates.htm](http://www.cdc.gov/h1n1flu/clinicians/clinician_forms_templates.htm)

Interim Guidance on Case Definitions to be Used For Investigations of Novel Influenza A (H1N1) Cases\* [May 11]

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



Interim Guidance for Clinicians on the Prevention and Treatment of Novel Influenza A (H1N1) Influenza Virus Infection in Infants and Young Children [May 11]

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



Interim CDC Guidance for Institutions of Higher Education and Post-secondary Educational Institutions in Response to Human Infections with Novel Influenza A (H1N1) Virus [May 11]

[http://www.cdc.gov/h1n1flu/guidance/guidelines\\_colleges.htm](http://www.cdc.gov/h1n1flu/guidance/guidelines_colleges.htm)

Interim Guidance on Specimen Collection, Processing, and Testing for Patients with Suspected Swine-Origin Influenza A (H1N1) Virus Infection [May 11]

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

Interim Guidance for Emergency Medical Services (EMS) Systems and 9-1-1 Public Safety Answering Points (PSAPs) for Management of Patients with Confirmed or Suspected Swine-Origin Influenza A (H1N1) Infection [May 11]

[http://www.cdc.gov/h1n1flu/guidance\\_ems.htm](http://www.cdc.gov/h1n1flu/guidance_ems.htm)

**Previous CDC documents and updates available from:**

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

## Center for Infectious Disease Research and Policy

CIDRAP H1N1 Overview – Updated May 11

<http://www.cidrap.umn.edu/cidrap/content/influenza/swineflu/biofacts/swinefluoverview.html>

## Health Protection Agency (UK)



Update on confirmed swine flu cases in UK – **68** confirmed [May 12]  
[http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb\\_C/1242111707721?p=1231252394302](http://www.hpa.org.uk/webw/HPAweb&HPAwebStandard/HPAweb_C/1242111707721?p=1231252394302)



Algorithm S5 – for the management of suspected cases (returning travellers and visitors from countries affected by swine influenza A/H1N1 or contacts) for phase 5. [Updated May 12]  
[http://www.hpa.org.uk/web/HPAwebFile/HPAweb\\_C/1240732819361](http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1240732819361)

Swine Influenza page:

<http://www.hpa.org.uk/webw/HPAweb&Page&HPAwebAutoListName/Page/1240732817665?p=1240732817665>

## European Centre for Disease Prevention and Control (ECDC)



Situation report [May 12]:

Main developments in the past 24 hours:

14 new confirmed cases reported from EU and EFTA countries;

First case reported from mainland China;

Four additional confirmed cases with in-country transmission reported from the UK;

Outside of EU and EFTA countries, 5073 confirmed cases;

[http://www.ecdc.europa.eu/en/files/pdf/Health\\_topics/Situation\\_Report\\_090512\\_0800hrs.pdf](http://www.ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090512_0800hrs.pdf)

Meeting report: European pandemic influenza planning assumptions

[Stockholm, Sweden: 20-21 Jan 2009] [Posted May 11]

[http://www.ecdc.europa.eu/en/files/pdf/Publications/pandemic\\_planning.pdf](http://www.ecdc.europa.eu/en/files/pdf/Publications/pandemic_planning.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 26 [May 12, 06:00 GMT]:**

30 countries have officially reported **5251** cases of influenza A(H1N1) infection.

Mexico has reported 2059 laboratory confirmed human cases of infection, including 56 deaths. The United States has reported 2600 laboratory confirmed human cases, including three deaths. Canada has reported 330 laboratory confirmed human cases, including one death. Costa Rica has reported eight laboratory confirmed human cases, including one death.

The following countries have reported laboratory confirmed cases with no deaths - Argentina (1), Australia (1), Austria (1), Brazil (8), China (2, comprising 1 in China, Hong Kong Special Administrative Region, and 1 in mainland China), Colombia (3), Denmark (1), El Salvador (4), France (13), Germany (12), Guatemala (1), Ireland (1), Israel (7), Italy (9), Japan (4), Netherlands (3), New Zealand (7), Norway (2), Panama (16), Poland (1), Portugal (1), Republic of Korea (3), Spain (95), Sweden (2), Switzerland (1) and the United Kingdom (55).  
[http://www.who.int/csr/don/2009\\_05\\_12/en/index.html](http://www.who.int/csr/don/2009_05_12/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](http://www.who.int/csr/disease/swineflu/assess/disease_swineflu_assess_20090511/en/index.html)



Press briefing from Dr Nikki Shindo, Medical Officer, WHO Global Influenza Programme: WHO will soon publish initial guidance for clinical management of influenza A(H1N1)

Guidance document hasn't been released yet - press briefing from WHO is an MP3 audio file:

[http://terrance.who.int/mediacentre/audio/press\\_briefings/VPC\\_12MAY2009\\_Influenza\\_A\\_H1N1.mp3](http://terrance.who.int/mediacentre/audio/press_briefings/VPC_12MAY2009_Influenza_A_H1N1.mp3)

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)



Update: Influenza A(H1N1) Regional Report [May 11]

On 10 May 2009, Brazil, Colombia and El Salvador, each notified 2 new confirmed cases of influenza A (H1N1).

Up to 11 May 2009, the total of **confirmed cases** of influenza A (H1N1) recorded is **5,029** including **61 deaths, in 10 countries of the Americas (Argentina, Brazil, Canada, Colombia, Costa Rica, El Salvador, Guatemala, Mexico, Panama and the United States)**. However, this figure could be higher because some countries are still waiting for the laboratory confirmation of samples collected in previous weeks

[http://new.paho.org/hq/index.php?option=com\\_content&task=view&id=1341&Itemid=569](http://new.paho.org/hq/index.php?option=com_content&task=view&id=1341&Itemid=569)

PAHO Influenza A(H1N1) Portal

[http://new.paho.org/hq/index.php?option=com\\_content&task=blogcategory&id=805&Itemid=569&lang=en](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 (5251 confirmed cases, 61 deaths worldwide as of May 12)  
[http://www.who.int/csr/don/h1n1\\_20090512\\_0600.jpg](http://www.who.int/csr/don/h1n1_20090512_0600.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>

## Chronology of the Outbreak



AAAS ScienceInsider: Swine Flu Oubreak, Day by Day  
<http://blogs.sciencemag.org/scienceinsider/2009/05/swine-flu-outbr.html>

## 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](http://twitter.com/statuses/user_timeline/32957440.rss)

## Scientific Resources

### Research Articles



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=&>



Radonovich LJ, Magalian PD, Hollingsworth MK, Baracco G. Stockpiling supplies for the next influenza pandemic [online report] *Emerg Infect Dis.* 2009 Jun; [Epub ahead of print]

<http://www.cdc.gov/eid/content/15/6/pdfs/08-1196.pdf>

Emergence of a Novel Swine-Origin Influenza A (H1N1) Virus in Humans. *NEJM.*

<http://content.nejm.org/cgi/reprint/NEJMoa0903810.pdf>

Triple-Reassortant Swine Influenza A (H1) in Humans in the United States, 2005–2009. *NEJM.*

<http://content.nejm.org/cgi/reprint/NEJMoa0903812v1.pdf>

### Other Resources



Immune Epitope Database and Analysis Resource (IEDB).

<http://www.iedb.org/>

[Key improvements in a major infectious disease database that will aid vaccine development worldwide were unveiled with the 2.0 launch of the National Institutes of Health-sponsored. The IEDB is the world's largest collection of scientific data on how the immune system responds to infectious diseases.]



Swine flu epitope analysis

[http://iedb.zendesk.com/attachments/583989/?name=Swine\\_Flu\\_Epitope\\_Report-0.5.pdf](http://iedb.zendesk.com/attachments/583989/?name=Swine_Flu_Epitope_Report-0.5.pdf)

New England Journal of Medicine H1N1 Influenza Center

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

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

Journal: *Vector-Borne and Zoonotic Diseases* is freely available through the end of May for better understanding of the H1N1 influenza epidemic  
<http://www.liebertonline.com/vbz>

Research Publications on Influenza A(H1N1) from the American Society for Microbiology are Freely Available  
<http://tinyurl.com/asmh1n1>.

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 H1N1: free worldwide access thanks to EBSCO <http://www.ebscohost.com/dynamed/swineflu/> and <http://www.ebscohost.com/dynamed/h1n1/>

## **Consumer Health Resources**

Animated Swine Flu movie for Children  
<http://www.brainpop.com/health/diseasesinjuriesandconditions/swineflu/>

## **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](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.