

H1N1 Flu Virus (Human Swine Influenza) Information Resources

(last updated July 27, 2009 at 5pm)

Overview

- Ontario: 18 deaths in Ontario to date
- Canada: 56 deaths as of July 23, 2009
 - 48 cases currently hospitalized

Highlights

- Health Canada - Interim Guidance for emergency use of oseltamivir (Tamiflu®) in children under one year of age in the context of 2009 (H1N1) pandemic
<http://www.phac-aspc.gc.ca/alert-alerte/swine-porcine/guidance-orientation-07-20-eng.php>
- Europe fast-tracking swine flu vaccine
http://news.yahoo.com/s/ap/20090726/ap_on_he_me/eu_med_swine_flu_vaccine_fast_track
- Mexico prepares for more swine flu as cases rise in Chiapas
<http://www.abs-cbnnews.com/world/07/27/09/mexico-prepares-more-swine-flu-cases-rise-chiapas>

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Events

Current / Upcoming

- [JULY 29] Special Advisory Committee on Immunization Practices (ACIP) meeting on Novel Influenza A (H1N1).
8:00a.m. - 3:00p.m (Atlanta, Georgia).
Deadline for online registration for non-US Citizens: July 20, 2009
<http://www.cdc.gov/vaccines/recs/acip/meetings.htm#register>

→ Agenda now available at:

<http://www.cdc.gov/vaccines/recs/acip/downloads/agenda-jul09.pdf>

Archived

- [JULY 23] FDA: July 23, 2009: Vaccines and Related Biological Products Advisory Committee Meeting Announcement
<http://www.fda.gov/AdvisoryCommittees/Calendar/ucm170908.htm>
- [JULY 15] COCA Conference Call: H1N1 Vaccine
Date: Wednesday, July 15, 2009
Time: 3:00 PM - 4:00 PM ET
Call-in number: 888-283-2960 (Passcode: 2822773)
The PowerPoint Presentation available on the COCA website:
<http://emergency.cdc.gov/coca/callinfo.asp>
- [JULY 9] H1N1 Preparedness Summit (Bethesda, Maryland)
All-day H1N1 Flu Preparedness Summit to further prepare the nation for the possibility of a more severe outbreak of H1N1 flu in the fall. Federal, state and local officials, emergency managers, educators and others will discuss lessons learned during the spring and summer H1N1 wave, and discuss best practices and preparedness priorities.
<http://www.pandemicflu.gov/>

Ministry of Health and Long-Term Care (MOHLTC)

[JULY 24] Ontario Influenza Bulletin: Surveillance Week 28 (July 12, 2009– July 18, 2009). **Note: Death and hospitalization information among Novel H1N1 Influenza A virus confirmed cases is current as of July 22, 2009**

- 18 deaths have been reported among confirmed H1N1 cases.
- 52 people who have the H1N1 flu virus were in hospital as of 8:30 a.m. on July 22, a number of whom have underlying medical conditions. 249 other people have been hospitalized for further assessment and have since been discharged.
- Fewer hospitalized cases and fewer deaths were reported this week in comparison with last week.

http://www.health.gov.on.ca/english/providers/program/pubhealth/flu/flu_08/bulletins/flu_bul_01_20090711.pdf

[JULY 11] Current Influenza Bulletin

http://www.health.gov.on.ca/english/public/updates/archives/hu_09/sf_weekly_update.html#h1n1_map

[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

Last H1N1 update on June 11

Ontario Agency for Health Protection and Promotion (OAHPP)

[JULY 17] H1N1 Weekly Literature

<http://www.oahpp.ca/Documents/H1N1%20Weekly%20Synthesis%20July%2017,%202009.pdf>

[ARCHIVE] Swine Influenza Outbreak page (no new resources since May 3)

<http://www.oahpp.ca/SRI%20Bulletin.php>

Public Health Agency of Canada (PHAC)

PHAC will issue national updates on H1N1-associated deaths on Tuesdays and Thursdays at 4 pm, and will report regularly on any unusual outbreaks or clusters of illness.



[JULY 24] Deaths from July 21 to July 23: 6 - British Columbia 1; Alberta 1; Manitoba 1; Ontario 2; Quebec 1; Cumulative total 55.



[JULY 24] Interim Guidance for emergency use of oseltamivir (Tamiflu®) In children under one year of age in the context of 2009 (H1N1) pandemic

<http://www.phac-aspc.gc.ca/alert-alerte/swine-porcine/guidance-orientation-07-20-eng.php>

[JULY 24] News release: Canada takes further action to better understand the H1N1 virus.

http://www.phac-aspc.gc.ca/media/nr-rp/2009/2009_0723-eng.php

[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)

July 24, 2009 is the last day that CDC is providing individual confirmed and probable cases of novel H1N1 influenza. CDC will report the total number of hospitalizations and deaths each week, and continue to use its traditional surveillance systems to track the progress of the novel H1N1 flu outbreak.

[JULY 24] Novel H1N1 Flu Situation Update:

43,771 probable cases

302 deaths

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

[JULY 24] H1N1 Monitoring Questions & Answers

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

[JULY 24] Novel H1N1 Vaccination Guidance for State, Local and Territorial Health Officials

<http://www.cdc.gov/h1n1flu/vaccination/statelocal/>

[ARCHIVE] Previous CDC documents and updates available from:

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

American College of Emergency Physicians

[JULY 6] National Strategic Plan for Emergency Department Management of Outbreaks of Novel H1N1 Influenza

<http://www.acep.org/WorkArea/DownloadAsset.aspx?id=45781>

Center for Infectious Disease Research and Policy

[JULY 21] FDA approves seasonal flu vaccines

http://www.cidrap.umn.edu/cidrap/content/influenza/swineflu/news/jul2109fda_mws.html

[ARCHIVE] Current overview and older updates from CIDRAP available at:
<http://www.cidrap.umn.edu/cidrap/content/influenza/swineflu/index.html>

Health Protection Agency (UK)

[JULY 23] HPA Weekly Pandemic Flu Update
http://www.hpa.org.uk/web/HPAweb&HPAwebStandard/HPAweb_C/1247816558780

[JULY 23] HPA Weekly National Influenza Report 23 July 2009 (Week 30)
http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1247816573986

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

Department of Health (UK)

[JULY 23] National Pandemic Flu Service goes online
http://www.dh.gov.uk/en/Publichealth/Flu/Swineflu/DH_103203

[JULY 2] UK Department of Health reports: *Swine flu pandemic: from containment to treatment*
<http://www.dh.gov.uk/en/Publichealth/Flu/Swineflu/InformationandGuidance/index.htm>

European Centre for Disease Prevention and Control (ECDC) and European Society for Clinical Microbiology and Infectious Diseases



[JULY 27] ECDC Situation Report

- 144 new cases (none fatal) were confirmed and reported from the EU and EFTA countries reaching a total of 20,656;
- 3,607 new cases reported from non-EU and EFTA countries, reaching a total of 143,133;
- The number of confirmed cases reported is based on laboratory test results, except for the US. Depending on the national laboratory testing policies, the actual number of cases by country may therefore be higher. **Several countries have now announced recommendations on treatment on clinical signs only for specific population groups or in outbreaks. For these countries, the reported number of cases presented in this report will severely underestimate the true incidence in the country and will not**

be comparable to countries still recommending laboratory tests of all suspected influenza cases.

http://www.ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090727_1700hrs.pdf

[JULY 24] European Influenza Surveillance Network Weekly electronic Bulletin Week 29: 13 July 2009 - 19 July 2009 Continued high and widespread pandemic influenza activity in the UK (England), especially among children. Sporadic activity in some other countries

http://www.ecdc.europa.eu/en/activities/surveillance/EISN/Newsletter/SUN_EISN_INFL_Bulletin_2009week29.pdf

[JULY 24] Pandemic (H1N1) 2009: Analysis of individual case reports in EU and EEA countries

[http://www.ecdc.europa.eu/en/files/pdf/Health_topics/090724_Influenza_A\(H1N1\)_Analysis_of_individual_data_EU_EEA-EFTA.pdf](http://www.ecdc.europa.eu/en/files/pdf/Health_topics/090724_Influenza_A(H1N1)_Analysis_of_individual_data_EU_EEA-EFTA.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)

WHO no longer issues the global tables showing the numbers of confirmed cases for all countries. However, as part of continued efforts to document the global spread of the H1N1 pandemic, regular updates will be provided describing the situation in the newly affected countries.



[JULY 27] Pandemic (H1N1) 2009 - update 59

Regions	Cumulative total	
	Cases*	Deaths
WHO Regional Office for Africa (AFRO)	157	0
WHO Regional Office for the Americas (AMRO)	87965	707
WHO Regional Office for the Eastern Mediterranean (EMRO)	890	1
WHO Regional Office for Europe (EURO)	16556	34
WHO Regional Office for South-East Asia (SEARO)	7358	44
WHO Regional Office for the Western Pacific (WPRO)	21577	30
Grand Total	134503	816

*Given that countries are no longer required to test and report individual cases, the number of cases reported actually understates the real number of cases.

http://www.who.int/csr/don/2009_07_27/en/index.html



[JULY 27] Instructions for transport of virus cultures (i.e. virus isolates) of candidate reassortant vaccine viruses of pandemic (H1N1) 2009 virus
http://www.who.int/csr/resources/publications/swineflu/instructions_transport_virus/en/index.html

[JULY 24] Pandemic (H1N1) 2009 briefing note 4 :Preliminary information important for understanding the evolving situation
http://www.who.int/csr/disease/swineflu/notes/h1n1_situation_20090724/en/index.html

[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)

[JULY 21] Due to the changes in epidemiological surveillance of the Pandemic (H1N1) 2009 published by the World Health Organization, the July 21, 2009 Regional Update will not be published. Past Alerts and past Regional Updates remain available at:
http://new.paho.org/hq/index.php?option=com_content&task=blogcategory&id=814&Itemid=1206

[ARCHIVE] PAHO Influenza A (H1N1) Portal
http://new.paho.org/hq/index.php?option=com_content&task=blogcategory&id=805&Itemid=569&lang=en

Australia and New Zealand



[JULY 27] Health Emergency Australia Pandemic (H1N1) 2009 Situation Update Bulletin
17,061 cases, 50 deaths and 378 hospitalizations

[http://www.healthemergency.gov.au/internet/healthemergency/publishing.nsf/Content/A171FE07D4DB39EFCA257600000B7351/\\$File/H1N1%20Influenza%2012pm%2027%20July.pdf](http://www.healthemergency.gov.au/internet/healthemergency/publishing.nsf/Content/A171FE07D4DB39EFCA257600000B7351/$File/H1N1%20Influenza%2012pm%2027%20July.pdf)



[JULY 21] New Zealand update
<http://www.scoop.co.nz/stories/GE0907/S00127.htm>
2662 cases, 12 deaths

[ARCHIVE] New Pandemic Phase Project - PROTECT Guidelines/Updates
<http://www.healthemergency.gov.au/internet/healthemergency/publishing.nsf/Content/home-1>

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

Consumer Health Information Resources

Krames Patient Education Handouts - H1N1 Flu Virus
<http://www.krames.com/swine-flu.html>

MEDLINEplus - H1N1 Flu (Swine Flu)
<http://www.nlm.nih.gov/medlineplus/h1n1fluswineflu.html>

Specialized Information Service - National Library of Medicine
<http://sis.nlm.nih.gov/enviro/swineflu.html>.

Tufts University - (SPIRAL) Selected Patient Information in Asian Languages
<http://spiral.tufts.edu/topic.shtml>

Notable Research Articles

Medline literature search on H1N1 (current as of today).

- Click [here](#) to run a search.

- NEW** [JULY 27] Katz R. Use of revised international health regulations during influenza A (H1N1) epidemic, 2009. *Emerg Infect Dis.* 2009 ; 15(8):1165-1170. Available from:
<http://www.cdc.gov/EID/content/15/8/1165.htm>
- NEW** [JULY 24] Barnett DJ, Balicer RD, Thompson CB, Storey JD, Omer SB, Semon NL, et al. Assessment of local public health workers' willingness to respond to pandemic influenza through application of the extended parallel process model. *PLoS One.* 2009 Jul 24;4(7):e6365
<http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0006365>
- NEW** [JULY 23] O'Dowd A. A/H1N1 influenza update. *BMJ.* 2009 Jul 3;339:b2977.
http://www.bmj.com/cgi/content/full/339/jul23_1/b2977?view=long&pmid=19628526
- NEW** [JULY 23] Morrison LG, Yardley L. What infection control measures will people carry out to reduce transmission of pandemic influenza? A focus group study. *BMC Public Health.* 2009 Jul 23;9(1):258.
<http://www.biomedcentral.com/content/pdf/1471-2458-9-258.pdf>
- [JULY] Review/Refresh/Revitalize – Your pandemic flu plan for fall 2009. Public Health Foundation.
<http://www.phf.org/Review-Refresh-and-Revitalize-Your-Pandemic-Flu-Plan-for-Fall-2009.pdf>
- [JULY] Barry, John (2009). White Paper on Novel H1N1. Engineering Systems Division Working Paper Series ESD-WP-2009-07. (19 pgs).
<http://esd.mit.edu/WPS/2009/esd-wp-2009-07.pdf>
- [JULY 24] Prevention and Control of Seasonal Influenza with Vaccines Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2009 *MMWR* July 24, 2009 / 58 (Early Release);1-52.
<http://www.cdc.gov/mmwr/preview/mmwrhtml/rr58e0724a1.htm>
- [JULY 24] Neurologic Complications Associated with Novel Influenza A (H1N1) Virus Infection in Children --- Dallas, Texas, May 2009 *MMWR Weekly* July 24, 2009 / 58(28);773-778
http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5828a2.htm?s_cid=mm5828a2_e/?date=072309

CMAJ Articles released July 20th:

Investigation of the first cases of human-to-human infection with the new swine-origin influenza A (H1N1) virus in Canada

<http://www.cmaj.ca/cgi/rapidpdf/cmaj.090859>

Modelling an influenza pandemic: a guide for the perplexed

<http://www.cmaj.ca/cgi/rapidpdf/cmaj.090885>

Infectious disease experts expect the unexpected with respect to swine flu

<http://www.cmaj.ca/cgi/rapidpdf/cmaj.091176>

- [JULY 22] EID article July 22, 2009 - Genomic diversity of Oseltamivir-resistant H1N1
<http://www.cdc.gov/eid/content/15/9/pdfs/09-0452.pdf>
- [JULY 22] EID article July 22, 2009 - Nurses' susceptibility to patients' influenza
<http://www.cdc.gov/eid/content/15/9/pdfs/08-1475.pdf>
- [JULY 21] The US Food and Drug Administration Provides a Pathway for Licensing Vaccines for Global Diseases. PLoS Medicine.
<http://www.plosmedicine.org/article/info%3Adoi%2F10.1371%2Fjournal.pmed.1000095>
- [JULY 20] NEJM article - Pneumonia and respiratory failure from swine-origin Influenza A (H1N1) in Mexico (July 20, 2009)
<http://content.nejm.org/cgi/content/short/NEJMoa0904252v1?rss=1>
- [JULY 20] NEJM article - Severe respiratory disease concurrent with the circulation of H1N1 Influenza (July 20, 2009)
<http://content.nejm.org/cgi/content/short/NEJMoa0904023v1?rss=1>
- [JULY 22] NEJM correspondence - **Rapid-test sensitivity** for Novel Swine-Origin Influenza A(H1N1) in Humans (July 20, 2009)
<http://content.nejm.org/cgi/content/short/NEJMc0904264v1?rss=1>
- [JULY 20] Nguyen JT, Hoopes JD, Smee DF, Prichard MN, Driebe EM, Engelthaler DM, et al. Triple combination of oseltamivir, amantadine, and ribavirin displays synergistic activity against multiple influenza virus strains in vitro. Antimicrob Agents Chemother. 2009 Jul 20. [Epub ahead of print].

- [JULY 20] August issue of the Lancet Infectious Diseases articles on H1N1
<http://www.lancet.com/journals/laninf/issue/current>
- [JULY 14] Itoh Y, Shinya K, Kiso M, et al. In vitro and in vivo characterization of new swine-origin H1N1 influenza viruses. *Nature* 2009 Jul 13 early online edition.
<http://www.nature.com/nature/journal/vnfv/ncurrent/abs/nature08260.html>
- [JULY 14] Assessing the severity of the novel influenza A/H1N1 pandemic
Garske et al. *BMJ*.2009; 339: b2840
http://www.bmj.com/cgi/content/citation/339/jul14_3/b2840
- [JULY 13] Gavin J. D. Smith, Justin Bahl, Dhanasekaran Vijaykrishna, Jinxia Zhang, Leo L. M. Poon, Honglin Chen, Robert G. Webster, J. S. Malik Peiris, and Yi Guan. Dating the emergence of pandemic influenza viruses. *PNAS* 2009 106:11709-11712; published online before print July 13, 2009, oi:10.1073/pnas.0904991106
<http://www.pnas.org/content/106/28/11709.full.pdf+html?sid=4cb65271-8f82-4a39-8753-127b62db5e21>
- [JULY 13] Intensive-care patients with severe novel influenza A (H1N1) virus infection—Michigan, June 2009. *MMWR Dispatch* 2009 Jul 10;58:1-4.
<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm58d0710a1.htm>
- [JULY 9] Lipsitch M, Riley S, Cauchemez S, Ghani AC, Ferguson NM. Managing and reducing uncertainty in an emerging influenza pandemic. *N Engl J Med*. 2009 Jul 9;361(2):112-5.
<http://content.nejm.org/cgi/content/full/361/2/112>
- [JULY 9] Khan K, Arino J, Hu W, Raposo P, Sears J, Calderon F, Heidebrecht C, Macdonald M, Liauw J, Chan A, Gardam M. Spread of a novel influenza A (H1N1) virus via global airline transportation. *N Engl J Med*. 2009 Jul 9;361(2):212-4.
<http://content.nejm.org/cgi/reprint/361/2/212.pdf>
- [JULY 9] Trifonov V, Khiabani H, Rabadan R. Geographic dependence, surveillance, and origins of the 2009 influenza A (H1N1) virus. *N Engl J Med*. 2009 Jul 9;361(2):115-9.
<http://content.nejm.org/cgi/reprint/361/2/115.pdf>
- [JULY 8] Hampson A. The 'novel' influenza A(H1N1) enigma: is it a pandemic, how should we respond, what should we call it? *Influenza Other Respi Viruses*. 2009 ; 3(4):119-20.

<http://www3.interscience.wiley.com/cgi-bin/fulltext/122455802/PDFSTART>

- [JULY 7] How well did health departments communicate about risk at the start of the Swine Flu epidemic in 2009? Health Affairs.
<http://content.healthaffairs.org/cgi/reprint/hlthaff.28.4.w743v1.pdf>
- [JULY 2] Influenza A (H1N1) infections among healthcare workers: a cause for cautious optimism. Sng J, Koh D, Koh G. Occup Environ Med. 2009 Jul 1. [Epub ahead of print]. Abstract only.
<http://www.ncbi.nlm.nih.gov/pubmed/19574241?dopt=Abstract>
- [JUNE 25] Strategy to enhance influenza surveillance worldwide / Ortiz JR, Sotomayor V, Uez OC, Oliva O, Bettels D, McCarron M, et al. Emerg Infect Dis. 2009 Aug; [Epub ahead of print]
<http://www.cdc.gov/eid/content/15/8/pdfs/08-1422.pdf>
- [JUNE 25] Rambault A. Origins and evolutionary genomics of the 2009 swine-origin H1N1 influenza A epidemic. Nature 2009; 459(7250): 1122-1125.
<http://www.nature.com/nature/journal/v459/n7250/full/nature08182.html>
- [JUNE 19] Novel Influenza A (H1N1) Virus Infections Among Health-Care Personnel --- United States, April--May 2009. Morbidity and Mortality Weekly Report (MMWR).
<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5823a2.htm>
- [JUNE 4] 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>

Other Scientific Resources

- [JUNE 17] Barry J. White paper on novel H1N1. Engineering Systems Division Working Paper Series ESD-WP-2009-07. Massachusetts Institute of Technology (MIT) 2009. 19 pages.
<http://esd.mit.edu/WPS/2009/esd-wp-2009-07.pdf>

Clinical and Public Health Practice Tools

- [JUNE 15] Algorithms from 18 US states to assist in decisions regarding testing and treatment of H1N1
<http://www.smh.com/sections/services-procedures/medlib/Pandemic/Algorithms/Algorithms.html>

Historical Resources

Swine flu of 1976: lessons from the past. An interview with Dr Harvey V Fineberg

<http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=19565118>

The Persistent Legacy of the 1918 Influenza Virus. *New England Journal of Medicine*.

<http://content.nejm.org/cgi/reprint/NEJMp0904819.pdf>

Historical Perspective — Emergence of Influenza A (H1N1) Viruses. *New England Journal of Medicine*.

<http://content.nejm.org/cgi/reprint/NEJMra0904322.pdf>

Markel H, Lipman HB, Navarro JA, et al. Nonpharmaceutical Interventions Implemented by US Cities During the 1918-1919 Influenza Pandemic. *JAMA*. 2007;298(6):644-654.

<http://jama.ama-assn.org/cgi/content/full/298/6/644>

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

[MAY 19] Public Health Agency of Canada no longer recommends Canadians postpone elective or non-essential travel to Mexico
<http://www.phac-aspc.gc.ca/tmp-pmv/2009/h1n1-mexico-090518-eng.php>