

H1N1 Flu Virus (Human Swine Influenza) Information Resources

(last updated July 20, 2009 at 5pm)

Overview

- Confirmed cases in Ontario as of **July 11**: 3,804
- Confirmed cases in Canada as of **July 15**: 10,156 (incl. 45 deaths)
- Confirmed cases worldwide* as of **July 20**: 139,566 (incl. 781 deaths)
- ECDC releases:
 - Interim risk assessment” for the influenza A(H1N1) 2009 pandemic.
[http://ecdc.europa.eu/en/files/pdf/Health_topics/090720_Influenza_A\(H1N1\)_Risk_Assessment.pdf](http://ecdc.europa.eu/en/files/pdf/Health_topics/090720_Influenza_A(H1N1)_Risk_Assessment.pdf)
 - Managing schools during current A(H1N1) 2009-10 pandemic
http://www.ecdc.europa.eu/en/health_content/phdev/090720_ph.aspx
- New articles on novel H1N1 from Lancet Infectious Diseases
<http://www.lancet.com/journals/laninf/issue/current>

* Global case totals obtained from the July 20 ECDC situation report, page 1

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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 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)

The MOHLTC posts case count updates on Friday.

- [JULY 16] Ontario Influenza Bulletin: Surveillance Week 27 (July 5, 2009– July 11, 2009). **Note: Death and hospitalization information among Novel H1N1 Influenza A virus confirmed cases is current as of July 16, 2009.**
277 hospitalizations and 16 deaths in Ontario to date
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)

[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 17] Canada releases new H1N1 outbreak guidelines for closed facilities
 - o News release: http://www.phac-aspc.gc.ca/media/nr-rp/2009/2009_0717-eng.php
 - o Guidelines: <http://www.phac-aspc.gc.ca/alert-alerte/swine-porcine/guidance-orientation-07-16-eng.php>

- [JULY 16] Interim Guidance for Ambulatory Care of Influenza-Like Illness in the context of H1N1 influenza virus
<http://www.phac-aspc.gc.ca/alert-alerte/swine-porcine/guidance-orientation-amb-07-16-eng.php>

- [JULY 15] As of 15 July, 2009, a total of 10,156 laboratory-confirmed cases of Pandemic (H1N1) 2009, including 1,115 hospitalizations and 45 deaths, have been reported in Canada from all provinces and territories.
<http://www.phac-aspc.gc.ca/alert-alerte/swine-porcine/surveillance-eng.php>

- [JULY 9] Interim Clinical Guidance for Pregnant and Breastfeeding Women with Influenza-Like Illness in the context of the Pandemic H1N1 2009 Virus
<http://www.phac-aspc.gc.ca/alert-alerte/swine-porcine/guidance-orientation-07-09-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)

The CDC posts case count updates on Friday.

[JULY 17] Novel H1N1 Flu Situation Update:
40, 617 probable cases
263 deaths
<http://www.cdc.gov/h1n1flu/update.htm>



[JULY 20] Novel H1N1 Influenza Vaccine Q &A
http://www.cdc.gov/h1n1flu/vaccination/public/vaccination_qa_public.htm

[JULY 16] Home Care Guidance: Physician Directions to Patient/Parent
http://www.cdc.gov/h1n1flu/guidance_homecare_directions.htm

[JULY 14] 10 Steps You Can Take: Actions for Novel H1N1 Influenza
Planning and Response for Medical Offices and Outpatient
Facilities
<http://www.cdc.gov/h1n1flu/10steps.htm>

[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

[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 16] HPA Weekly National Influenza Report (Week 29)
http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1247728935374

[JULY 8] Guidance on use of prophylaxis in the treatment phase of the H1N1Pandemic – Update
http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1247038677052

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

Department of Health (UK)



[JULY 16] National swine flu phone line launched
http://www.timesonline.co.uk/tol/life_and_style/health/article6716072.ece

[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 20] ECDC Situation Report

- 30 EU/EFTA have reported a total of 16,969 confirmed cases, including 16 deaths.

http://www.ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090720_1700hrs.pdf



[JULY 20] Interim risk assessment” for the influenza A(H1N1) 2009 pandemic.
[http://ecdc.europa.eu/en/files/pdf/Health_topics/090720_Influenza_A\(H1N1\)_Risk_Assessment.pdf](http://ecdc.europa.eu/en/files/pdf/Health_topics/090720_Influenza_A(H1N1)_Risk_Assessment.pdf)



[JULY 20] Managing schools during current A(H1N1) 2009-10 pandemic
http://www.ecdc.europa.eu/en/health_content/phdev/090720_ph.a.spx

[JULY 17] Analysis of influenza A(H1N1)v individual case reports in EU and EEA countries
[http://www.ecdc.europa.eu/en/files/pdf/Health_topics/090717_Influenza_A\(H1N1\)_Analysis_of_individual_data_EU_EEA-EFTA.pdf](http://www.ecdc.europa.eu/en/files/pdf/Health_topics/090717_Influenza_A(H1N1)_Analysis_of_individual_data_EU_EEA-EFTA.pdf)

- [JULY 17] Protocols for case-control studies to measure influenza vaccine effectiveness in the EU and EEA Member States
http://www.ecdc.europa.eu/en/files/pdf/Publications/Measuring_influenza_vaccine_effectiveness_Protocol_case_control_studies.pdf
- [JULY 17] Protocols for cohort database studies to measure influenza vaccine effectiveness in the EU and EEA Member States
http://www.ecdc.europa.eu/en/files/pdf/Publications/Measuring_influenza_vaccine_effectiveness_Protocol_cohort_database_studies.pdf
- [JULY 14] Surveillance and Studies in a Pandemic: Background paper for the Working groups
http://www.ecdc.europa.eu/en/files/pdf/Health_topics/0907_Surveillance_and_Studies_in_a_Pandemic_Background_Paper.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)

- [JULY 16] **Changes in reporting requirements for pandemic (H1N1) 2009 virus infection.**
WHO will no longer issue 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.
http://www.who.int/csr/disease/swineflu/notes/h1n1_surveillance_20090710/en/index.html
- [JULY 6] **Pandemic (H1N1) 2009 Update 58 (final update)**
http://www.who.int/csr/don/2009_07_06/en/index.html
- [JULY 13] Pandemic (H1N1) 2009 briefing note 2: WHO recommendations on pandemic (H1N1) 2009 vaccines
http://www.who.int/csr/disease/swineflu/notes/h1n1_vaccine_20090713/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)

- NEW** [JULY 17] Influenza A (H1N1) Regional Report
As of 17 July 2009, a total of 84,125 confirmed cases of the pandemic H1N1 2009, including 674 deaths, have been notified in 34 countries of the Americas.
http://new.paho.org/hq/index.php?option=com_content&task=view&id=1621&Itemid=1167
- [JULY 14] Highlights from the High-Level Cancun Meeting
http://new.paho.org/hq/index.php?option=com_content&task=view&id=1577&Itemid=1
- [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

- NEW** [JULY 20] Health Emergency Australia Pandemic (H1N1) 2009 Situation Update
Cumulative totals: 13,178 cases, 224 hospitalizations, 32 deaths
[http://www.healthemergency.gov.au/internet/healthemergency/publishing.nsf/Content/8AEF360409E67706CA2575F9000F3FE5/\\$File/H1N1%20Influenza%2012pm%2020%20July.pdf](http://www.healthemergency.gov.au/internet/healthemergency/publishing.nsf/Content/8AEF360409E67706CA2575F9000F3FE5/$File/H1N1%20Influenza%2012pm%2020%20July.pdf)
- NEW** [JULY 17] Pregnant Women Told to Don Masks During the Outbreak
<http://www.theage.com.au/lifestyle/wellbeing/pregnant-women-told-to-don-masks-as-swine-flu-outbreak-worsens-20090717-dn9p.html>
- [JULY 8] Project Phase Annex to the Australian Health Management Plan for Pandemic Influenza.
[http://www.healthemergency.gov.au/internet/healthemergency/publishing.nsf/Content/resources/\\$File/AHMPPI-PROTECTannex.pdf](http://www.healthemergency.gov.au/internet/healthemergency/publishing.nsf/Content/resources/$File/AHMPPI-PROTECTannex.pdf)
- [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



[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>