

# H1N1 Flu Virus (Human Swine Influenza) Information Resources

(last updated June 5th, 2009 at 5pm)

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## Overview

- Confirmed cases in Ontario as of **June 5, 3pm**: 1078 (2 deaths)
- Confirmed cases in Canada as of **June 3**: 1795 (incl. 1 death in AB, 2 in Ontario)
- Confirmed cases worldwide as of **June 5, 6am GMT**: 21,940 (incl. 125 deaths)
  - WHO pandemic level: 5
- WHO GENEVA, June 5 (Reuters) - World Health Organisation Director-General Margaret Chan is holding an emergency meeting on Friday to discuss the severity of H1N1 flu outbreaks, but no decision is expected on moving to the top level of pandemic alert, a WHO spokeswoman said. "The agenda is not to decide on phase 6," WHO spokeswoman Fadela Chaib told a news briefing in Geneva.
- The Trust for America's Health (TFAH), the Center for Biosecurity, and the Robert Wood Johnson Foundation (RWJF) analyze the initial response to the H1N1 outbreak, *Pandemic Flu: Lessons From the Frontlines*, which found that U.S. officials executed strong coordination and communication and an ability to adapt to changing circumstances, but it also how quickly the nation's core public health capacity would be overwhelmed if an outbreak were more severe or widespread. Read the [full story](#).
- B.C. Perinatal H1N1 guidelines [here](#)

## 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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## Events

### Upcoming



**[JUNE 9]** The American Bar Association's Health Law Section, the CDC Clinician Outreach and Communication Activity (COCA), and the CDC Public Health Law Program have collaborated to present a teleconference entitled ***Legal Issues Related to Novel Influenza A (H1N1)*** on Tuesday, June 9, 2009 from 1:00 to 2:30 p.m. ET.

CALL-IN NUMBER: 888-283-2960  
PASSCODE: 1690913

The PowerPoint Presentation will be available on the COCA website prior to the call:

<http://emergency.cdc.gov/coca/callinfo.asp>

### Archived

**[JUNE 4]** Briefing on A(H1N1) influenza outbreaks by Dr. Jon K. Andrus, Pan American Health Organization. Registration not required.  
Canadian Toll-Free Number: 1-866-682-1172  
Questions can also be sent by email: [pressconference@paho.org](mailto:pressconference@paho.org)  
[http://new.paho.org/hq/index.php?option=com\\_content&task=view&id=1458&Itemid=1](http://new.paho.org/hq/index.php?option=com_content&task=view&id=1458&Itemid=1)

**[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. Video highlights available at link below.  
[www.TheLancet.com/H1N1-flu](http://www.TheLancet.com/H1N1-flu).

**[MAY 8]** 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)



**[JUNE 5]** 268 New Confirmed Cases of H1N1 Flu Virus in Ontario

There are 184 new confirmed cases of H1N1 flu virus since Wednesday, bringing the total number of cases in Ontario to 1,078.

Almost all of the cases reported to date are considered mild. The vast majority of these cases have recovered and public health officials estimate that about 150 people are currently sick.

Two people, who had the H1N1 virus and chronic medical conditions, have died. Six people who have the H1N1 flu virus were in hospital as of June 4, a number of whom have underlying medical conditions.

The Ontario cases involve 543 males and 532 females (the gender of three cases is unknown) with an age range of <1 to 97. The average age of the cases is 22.

The breakdown by health unit is as follows:

Health Unit	New Confirmed Cases	Total Confirmed Cases
Toronto	74	510
Peel Region	34	186
York Region	33	159
Halton	16	88
City of Ottawa	14	51
Durham Region	6	31
Simcoe Muskoka District	2	12
Hamilton	0	7
Wellington Dufferin Guelph	1	7
Windsor Essex	0	5
Middlesex-London	0	4
Sudbury and District	0	3
Waterloo Region	0	3
Niagara Region	0	1
Oxford County	0	1
Leeds, Grenville & Lanark	0	1
Haliburton, Kawartha, Pine Ridge	1	1
Hastings and Prince Edward Counties	1	2
Grey Bruce	0	1
Northwestern	0	1
Out of province (*)	0	2
<b>TOTAL</b>	<b>184</b>	<b>1074</b>

(\*) – 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/jun/nr\\_20090605.html](http://www.health.gov.on.ca/english/media/news_releases/archives/nr_09/jun/nr_20090605.html)

[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](http://www.health.gov.on.ca/english/public/updates/archives/hu_09/swine_flu.html)

## Important Health Notices



Important Health Notice June 4, 2009

[http://www.health.gov.on.ca/english/providers/program/emu/health\\_notice/s/ihn\\_20090603.pdf](http://www.health.gov.on.ca/english/providers/program/emu/health_notice/s/ihn_20090603.pdf)

## 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)

**NEW** [JUNE 3] As of June 3, a total of 1,795 laboratory-confirmed cases of H1N1 flu virus have been reported in 9 provinces and 3 territories in Canada.

Province / Territory	New Confirmed Cases	Total Confirmed Cases	Total Deaths
British Columbia	4	136	0
Alberta	15	141	1
Saskatchewan	0	153	0
Manitoba	27	38	0
Ontario	179	894	2
Quebec	37	346	0
New Brunswick	0	2	0
Nova Scotia	1	74	0
Prince Edward Island	0	3	0
Newfoundland	0	0	0
Yukon	0	1	0
Northwest Territories	1	2	0
Nunavut	1	5	0
<b>TOTAL</b>	<b>265</b>	<b>1795</b>	<b>3</b>

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

[ARCHIVE] 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)

**NEW** [JUNE 5, 11am] Confirmed and probable cases in the US: 13217 (incl. 27 deaths)  
<http://www.cdc.gov/h1n1flu/update.htm>

**NEW** [JUNE 5] Interim Novel Influenza A (H1N1) Guidance for Cruise Ships.  
<http://www.cdc.gov/h1n1flu/guidance/cruiseships.htm>



[JUNE 5] Interim Guidance for Airlines Regarding Flight Crews Arriving from Domestic and International Areas Affected by Swine Influenza  
<http://www.cdc.gov/h1n1flu/guidance/air-crew-dom-intl.htm>

[JUNE 3] H1N1 Flu (Swine Flu): Resources for the Deaf and Hard of Hearing  
<http://www.cdc.gov/h1n1flu/deaf.htm>

[JUNE 1] Interim Guidance on Case Definitions to be Used For Investigations of Novel Influenza A (H1N1) Cases\* (Update)  
<http://www.cdc.gov/h1n1flu/casedef.htm>

[MAY 28] Post-mortem Care and Safe Autopsy Procedures for Novel H1N1 Influenza  
[http://www.cdc.gov/h1n1flu/post\\_mortem.htm](http://www.cdc.gov/h1n1flu/post_mortem.htm)

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

## Center for Infectious Disease Research and Policy



[JUNE 5] Novel H1N1 Influenza (Swine Flu)  
<http://www.cidrap.umn.edu/cidrap/content/influenza/swineflu/biofacts/swinefluoverview.html>

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

## Health Protection Agency (UK)



[JUNE 5] Confirmed swine flu cases in UK: **486**  
27 further patients under investigation in England have today been confirmed with swine flu. Together with the 31 cases in Scotland announced yesterday (Tuesday June 04 2009) by the Scottish Executive this brings the current total number of confirmed UK cases to 486.  
[http://www.hpa.org.uk/web/HPAweb&HPAwebStandard/HPAweb\\_C/1244188831739?p=1231252394302](http://www.hpa.org.uk/web/HPAweb&HPAwebStandard/HPAweb_C/1244188831739?p=1231252394302)



[JUNE 5] Swine-lineage Influenza A H1N1 UK epidemiology - latest summary of UK cases  
<http://www.hpa.org.uk/web/HPAweb&Page&HPAwebAutoListName/Page/1243928258552>



[JUNE 5] Summary of prescribing guidance for the treatment and prophylaxis of influenza-like illness: CONTAINMENT PHASE  
[http://www.hpa.org.uk/web/HPAwebFile/HPAweb\\_C/1243581475043](http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1243581475043)

[JUNE 3] Updated: Standard practical advice for investigating individuals with possible swine influenza infection (PDF, 269 KB)  
[http://www.hpa.org.uk/webc/HPAwebFile/HPAweb\\_C/1241048770758](http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1241048770758)

[JUNE 3] Updated: Algorithm S5(a): Algorithm for the management of suspected cases of swine influenza (A/H1N1v)  
[http://www.hpa.org.uk/webc/HPAwebFile/HPAweb\\_C/1240732819361](http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1240732819361)

[JUNE 2] Guidance on the management of contacts of a probable or confirmed case on swine influenza on an aircraft  
[http://www.hpa.org.uk/webc/HPAwebFile/HPAweb\\_C/1243928267943](http://www.hpa.org.uk/webc/HPAwebFile/HPAweb_C/1243928267943)

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

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



[JUNE 3] Situation report: **971** confirmed cases in EU/EFTA countries  
Developments in the past 24 hours:

- 144 new cases confirmed from EU and EFTA countries;
- 254 new cases are reported from non EU and EFTA countries;
- First case reported from French Polynesia and Barbados.

[http://ecdc.europa.eu/en/files/pdf/Health\\_topics/Situation\\_Report\\_090605\\_1700hrs.pdf](http://ecdc.europa.eu/en/files/pdf/Health_topics/Situation_Report_090605_1700hrs.pdf)



[JUNE 5] Influenza experts meet in Stockholm  
[http://www.ecdc.europa.eu/en/health\\_content/Articles/article\\_20090605.aspx](http://www.ecdc.europa.eu/en/health_content/Articles/article_20090605.aspx)



Link to EU study on pig infection during human pandemic  
[http://ec.europa.eu/food/committees/regulatory/scfcah/animal\\_health/background\\_doc\\_point1\\_en.pdf](http://ec.europa.eu/food/committees/regulatory/scfcah/animal_health/background_doc_point1_en.pdf)

[JUNE 1] Executive Science Update No. 7: ECDC's reponse to influenza A(H1N1)  
[http://www.ecdc.europa.eu/en/Insight\\_Exec\\_Sci\\_update/Files/Executive\\_Science\\_Update\\_June\\_2009.pdf](http://www.ecdc.europa.eu/en/Insight_Exec_Sci_update/Files/Executive_Science_Update_June_2009.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)

**NEW** [JUNE 5] Update 44: : As of 06:00 GMT, 5 June 2009, **69 countries** have officially reported **21,940 cases** of influenza A(H1N1) infection, including **125 deaths**.

[http://www.who.int/csr/don/2009\\_06\\_05/en/index.html](http://www.who.int/csr/don/2009_06_05/en/index.html)



[JUNE 5] Today's WHO Outbreak Map

[http://www.who.int/csr/don/Map\\_20090605\\_1000.png](http://www.who.int/csr/don/Map_20090605_1000.png)

[JUNE 2] Transcript of virtual press conference with Gregory Hartl, WHO Spokesperson for Epidemic and Pandemic Diseases, and Dr Keiji Fukuda, Assistant Director-General ad Interim for Health Security and Environment  
[http://www.who.int/entity/mediacentre/influenzaAH1N1\\_presstranscript\\_20090602.pdf](http://www.who.int/entity/mediacentre/influenzaAH1N1_presstranscript_20090602.pdf)

[MAY 28] Update of WHO biosafety risk assessment and guidelines for the production and quality control of human influenza pandemic vaccines  
[http://www.who.int/biologicals/publications/trs/areas/vaccines/influenza/H1N1\\_vaccine\\_production\\_biosafety\\_SHOC.27May2009.pdf](http://www.who.int/biologicals/publications/trs/areas/vaccines/influenza/H1N1_vaccine_production_biosafety_SHOC.27May2009.pdf)

[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)



[JUNE 4] Influenza A(H1N1) Regional Report

As of 4 June 2009, **19,490 confirmed cases** of the new virus influenza A (H1N1) infection, **including 125 deaths**, have been notified in **24 countries of the Americas**: Argentina, Bahamas, Barbados, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Jamaica, Mexico, Nicaragua, Paraguay, Panama, Peru, United States, Uruguay and Venezuela.

[http://new.paho.org/hq/index.php?option=com\\_content&task=view&id=1469&Itemid=1167](http://new.paho.org/hq/index.php?option=com_content&task=view&id=1469&Itemid=1167)

[ARCHIVE] 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

[JUNE 5] Results are refreshed each time you click on the link.

<http://www.google.com/cse?cx=014077570761466621685%3As7g-vqi-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](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>

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)

## 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](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](http://www.canadianbusiness.com/managing/strategy/article.jsp?content=20090615_10014_10014)

## 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>

### British Medical Journal

Podcast: Swine flu: planning

<http://podcasts.bmj.com/bmj/2009/05/26/swine-flu-planning/>

### 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/>

## **Human/Swine A/H1N1 Influenza Origins and Evolution**

<http://tree.bio.ed.ac.uk/groups/influenza/>

## **Lancet**

H1N1 Flu Resource Centre (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>

## **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

Free H1N1 briefing (updated daily) from *Proux Science Integrity*® portal  
<http://science.thomsonreuters.com/pharma/h1n1/>

## New & Notable Research Articles



Development of antivirals to disrupt both neuraminidase and hemagglutinin]. *Scientific American* -  
<http://www.scientificamerican.com/article.cfm?id=knocking-out-the-flu>



Update: Novel Influenza (H1N1) virus infection, Mexico, March-May 2009. *MMWR*: Vol. 58, no. 21 June 5, 2009  
[http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5821a2.htm?s\\_cid=mm5821a2\\_x](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5821a2.htm?s_cid=mm5821a2_x)

M. Lipsitch, et al. Managing and Reducing Uncertainty in an Emerging Influenza Pandemic *NEJM* 2009 May 28: 360(22)  
ONLINE FIRST [Free Full Text](#)

V. Trifonov, et al. Geographic Dependence, Surveillance, and Origins of the 2009 Influenza A (H1N1) Virus *NEJM* 2009 May 28: 360(22)  
ONLINE FIRST [Free Full Text](#)

Garten Rj et al. Antigenic and Genetic Characteristics of Swine-Origin 2009 A(H1N1) Influenza Viruses Circulating in Humans. Published Online May 22, 2009 *Science* DOI: 10.1126/science.1176225. Abstract only.  
<http://www.sciencemag.org/cgi/content/abstract/1176225>

Hobday RA, Cason. The Open-Air Treatment of Pandemic Influenza. *Am J Public Health*. 2009 May 21. [Epub ahead of print]  
<http://www.ajph.org/cgi/content/abstract/AJPH.2008.134627v1>

Serum Cross-Reactive Antibody Response to a Novel Influenza A (H1N1) Virus After Vaccination with Seasonal Influenza Vaccine. 2009 May 22;58(19):521-524.  
<http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5819a1.htm>

J.A. Belser et al. Past, Present, and Possible Future Human Infection with Influenza Virus A Subtype H7. *Emerging Infectious Diseases*. 2009 June;15(6):859-865.  
<http://www.cdc.gov/eid/content/15/6/pdfs/859.pdf>

R. Proff et al. Case-based Surveillance of Influenza Hospitalizations during 2004–2008, Colorado, USA. 2009 June;15(6):892-898.  
<http://www.cdc.gov/eid/content/15/6/pdfs/892.pdf>

P.K.C. Cheng et al. Oseltamivir- and Amantadine-Resistant Influenza Viruses A (H1N1). 2009 June;15(6):966-968.  
<http://www.cdc.gov/eid/content/15/6/pdfs/966.pdf>

L.J. Radonovich et al. Stockpiling Supplies for the Next Influenza Pandemic. 2009 June;15(6): online only.  
<http://www.cdc.gov/eid/content/15/6/e1.htm>

Shetty P. Preparation for a pandemic: influenza A H1N1. Lancet Infectious Diseases. 2009 June;9(6):339-340. Abstract only.  
[http://www.lancet.com/journals/laninf/article/PIIS1473-3099\(09\)70130-6/fulltext](http://www.lancet.com/journals/laninf/article/PIIS1473-3099(09)70130-6/fulltext)

Putting influenza A H1N1 in its place [editorial]. The Lancet Infectious Diseases. 2009 June;9(6):331. Abstract only.  
[http://www.thelancet.com/journals/laninf/article/PIIS1473-3099\(09\)70134-3/fulltext](http://www.thelancet.com/journals/laninf/article/PIIS1473-3099(09)70134-3/fulltext).

Cohen J. Past Pandemics Provide Mixed Clues to H1N1's Next Moves. Science. 2009 May 22;324:996-997. Abstract only.  
<http://tinyurl.com/scienceh1n1>

## Historical Resources



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](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>