

# H1N1 Flu Virus (Human Swine Influenza)

## Information Resources

(last updated July 22, 2009 at 5pm)

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### Overview

- Ontario: 277 hospitalizations and 16 deaths in Ontario to date
- Canada: 50 deaths as of July 21, 2009
- New articles in CMAJ:
  - 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/reprint/181/3-4/159>
  - Modelling an influenza pandemic: a guide for the perplexed  
<http://www.cmaj.ca/cgi/reprint/181/3-4/171>
  - Infectious disease experts expect the unexpected with respect to swine flu  
<http://www.cmaj.ca/cgi/reprint/181/3-4/171>

\* 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>

- [JULY 23] FDA: July 23, 2009: Vaccines and Related Biological Products Advisory Committee Meeting Announcement  
<http://www.fda.gov/AdvisoryCommittees/Calendar/ucm170908.htm>

### 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](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](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](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,%2009.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 21] Bi-weekly and cumulative number of deaths due to Pandemic (H1N1) 2009, by province/territory, Canada, as of 21 July, 2009, 11h00 EDT :  
Saskatchewan 1; Ontario 1; Quebec 2; Nunavut 1;  
Cumulative total 50.

[JULY 17] Canada releases new H1N1 outbreak guidelines for closed facilities

- News release: [http://www.phac-aspc.gc.ca/media/nr-rp/2009/2009\\_0717-eng.php](http://www.phac-aspc.gc.ca/media/nr-rp/2009/2009_0717-eng.php)
- 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>

[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)

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](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](http://www.cdc.gov/h1n1flu/guidance_homecare_directions.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

[JULY 21] FDA approves seasonal flu vaccines  
[http://www.cidrap.umn.edu/cidrap/content/influenza/swineflu/news/jul2109fda\\_mws.html](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 16] HPA Weekly National Influenza Report (Week 29)  
[http://www.hpa.org.uk/web/HPAwebFile/HPAweb\\_C/1247728935374](http://www.hpa.org.uk/web/HPAwebFile/HPAweb_C/1247728935374)
- [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](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 21] ECDC Situation Report
- 212 new cases (no new deaths) confirmed and reported from the EU and EFTA countries, reaching a total of 17,181;
  - 4,063 new cases reported from non-EU and EFTA countries, reaching a total of 126,660;
  - South Korea raised the national alert level for swine flu.
- [http://www.ecdc.europa.eu/en/files/pdf/Health\\_topics/Situation\\_Report\\_090720\\_1700hrs.pdf](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](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](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](http://www.ecdc.europa.eu/en/files/pdf/Publications/Measuring_influenza_vaccine_effectiveness_Protocol_cohort_database_studies.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](http://www.who.int/csr/disease/swineflu/notes/h1n1_surveillance_20090710/en/index.html)
- [JULY 21] Availability of vaccine potency testing reagents for pandemic (H1N1) 2009 virus vaccines [published 14 July 2009, posted 21 July 2009]  
[http://www.who.int/csr/resources/publications/swineflu/vaccine\\_potency\\_reagents/en/index.html](http://www.who.int/csr/resources/publications/swineflu/vaccine_potency_reagents/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](http://new.paho.org/hq/index.php?option=com_content&task=blogcategory&id=814&Itemid=1206)
- [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](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](http://new.paho.org/hq/index.php?option=com_content&task=blogcategory&id=805&Itemid=569&lang=en)

## Australia and New Zealand

-  [JULY 22] Health Emergency Australia Pandemic (H1N1) 2009 Situation Update  
Cumulative totals: 14,703 cases, 1662 hospitalizations, 41 deaths  
[http://www.healthemergency.gov.au/internet/healthemergency/publishing.nsf/Content/8AEF360409E67706CA2575F9000F3FE5/\\$File/H1N1%20Influenza%2012pm%2022%20July.pdf](http://www.healthemergency.gov.au/internet/healthemergency/publishing.nsf/Content/8AEF360409E67706CA2575F9000F3FE5/$File/H1N1%20Influenza%2012pm%2022%20July.pdf)
-  [JULY 22] Australian H1N1 vaccine clinical trials underway  
<http://www.abc.net.au/news/stories/2009/07/22/2632625.htm>
-  [JULY 21] New Zealand update  
<http://www.scoop.co.nz/stories/GE0907/S00105.htm>
- [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>
- [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](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)

## 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 22] CMAJ Articles released July 20<sup>th</sup>:

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 and 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] PMID: 19620324.

[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](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](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>