

# H1N1 Flu Virus (Human Swine Influenza) Information Resources

*Current as of August 18, 2009 at 4pm*

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## Highlights

- Reports from Elsevier Global Medical News:
  - [Oseltamivir-Resistant Novel Influenza A \(H1N1\) Identified in U.S. or the First Time](#)
  - [ECDC: Young Children, Pregnant Women, Chronically Ill at Highest Risk From H1N1](#)
- [Officials \(US\) lower expectations for size of first novel flu vaccine deliveries](#)
- CDC issues [Interim Biosafety Guidance for All Individuals handling Clinical Specimens or Isolates containing 2009-H1N1 Influenza A Virus \(Novel H1N1\), including Vaccine Strains](#)

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## Events

### Current / Upcoming

[AUG 25] [Corporate Preparedness for H1N1: How pressure-tested planners are bracing now for fall](#)

Panelists will cover:

- The latest scientific information on H1N1
- Insight into the range of human resources policies and practices organizations are considering or adopting, including absenteeism, sick-leave pay, travel, and recovered workers returning to work
- How a group of HR professionals from multinational corporations collaborated during the spring crisis to ensure their organizations had access to effective practices as the pandemic unfolded
- The successful interplay of crisis management and communication and how companies use tools such as conference calls, intranet sites, and phone hotlines
- Key tools from H5N1 (bird flu) planning that were useful when H1N1 (swine flu) began, what approaches and practices had to be adjusted, and how at least two major corporations plan to stay flexible and responsive this fall
- Managing the logistical challenges of employees, facilities, supply chains, and external partners in regions and countries with differing levels illness severity, access to care, and government regulations.

[AUG 20] [Maine H1N1 Influenza Preparedness Summit](#)

The goal of this Summit is to help Maine prepare for the fall and to plan for a statewide H1N1 vaccination campaign.

### Archived

[AUG 13] [Experts air practical PPE considerations to Institute of Medicine](#)

On the second and final day of an Institute of Medicine (IOM) task force meeting on how to protect healthcare workers from the novel H1N1 virus, experts focused on issues surrounding the effectiveness and practical use of masks and respirators in work settings.

[AUG 11-13] [Workshop on Personal Protective Equipment for Healthcare Workers in the Workplace Against Novel H1N1 Influenza A](#)

This workshop will examine the emerging science and clinical experience base associated with nH1N1, discuss criteria used to delineate infection control guidelines and assess risk to the healthcare workforce, and examine what's known about the effectiveness of masks, respirators, gowns, gloves, and eye protection in preventing H1N1 transmission.

[JULY 29] [Special Advisory Committee on Immunization Practices \(ACIP\) meeting on Novel Influenza A \(H1N1\)](#)

The goals of this meeting are to:

- Review current epidemiology and virology of pandemic, vaccine supply/demand estimates, implementation plans
- Provide evidence-based recommendations on target groups for pandemic vaccination efforts

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

[AUG 17] [Ontario Influenza Bulletin: Surveillance Week 31 \(Aug 2 – Aug 8\)](#)

The Influenza Bulletin provides information based on the surveillance period August 2 to August 8, 2009. Case counts from the previous week are submitted to the ministry by public health units every Tuesday. Data on hospitalizations and deaths is submitted daily and therefore is accurate as of August 12th.

For the surveillance period of August 2 to August 8, 2009 :

- Overall, influenza activity in Ontario was similar compared the previous week.
- However, the rate of influenza-like illness (ILI) in patients seen by sentinel physicians is above what is expected for this time of year, particularly for those less than 19 years of age.
- Slightly more patients reporting influenza-like symptoms consulted sentinel physicians this week than the previous week.
- The majority of health units continue to report sporadic activity. Only one health unit reported localized activity.
- There are 4,035 confirmed cases of H1N1 flu virus reported through the integrated Public Health System (iPHIS) as of August 8, 2009.

As of August 12 :

- 21 deaths have been reported among confirmed H1N1 cases.
- 44 people who have the H1N1 flu virus were in hospital as of 8:30 a.m. on August 12, a number of whom have underlying medical conditions. 294 other people have been hospitalized and have since been discharged.
- A similar number of hospitalized cases were reported this week. No new deaths among cases were reported this week.

[ARCHIVED] [Previous MOHLTC updates and news conference video footage](#)

### Important Health Notices

Last H1N1 update on June 11

## Ontario Agency for Health Protection and Promotion (OAHPP)



[AUG 18] [H1N1 Weekly Synthesis of Surveillance Information, Literature & Government Updates for week ending Aug 14, 2009](#)

[ARCHIVED] [Swine Influenza Outbreak Page](#) (no new resources since Aug 7)

## Public Health Agency of Canada (PHAC)

*PHAC issues 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.*

[AUG 14] [Canada examines vitamin D for swine flu protection](#)

Researchers in PHAC are working with colleagues at McMaster University and with partners at other universities and hospitals to determine whether there is a correlation between severe disease and low vitamin D levels and/or a person's genetic make up. This line of research in seasonal influenza will be adapted to H1N1.

[AUG 14] [FluWatch Findings for the Week 31 \(week ending Aug 8\)](#)

[AUG 13] [Deaths associated with H1N1 virus in Canada](#)  
No new deaths reported from Aug 11 to Aug 13 (cumulative total: 66 deaths)

[AUG 12] [Interim Guidance: Prevention and management of cases of influenza-like illness \(ILI\) that may be due to pandemic \(H1N1\) 2009 influenza virus on cruise ships](#)

[ARCHIVED] [Previous PHAC Documents and Updates](#)

## Centers for Disease Control and Prevention (CDC) and US Department of Health and Human Services

*CDC reports the total number of H1N1 hospitalizations and deaths each Friday.*



[AUG 15] [Interim Biosafety Guidance for All Individuals handling Clinical Specimens or Isolates containing 2009-H1N1 Influenza A Virus \(Novel H1N1\), including Vaccine Strains](#)

[AUG 14] [US Situation Update for Week Ending Aug 14](#)  
Cumulative H1N1 totals: 7511 hospitalized cases, 477 deaths.

[AUG 14] [International Situation Update](#)

- H1N1 is the predominate influenza virus in circulation worldwide.
- Epidemiology of the disease caused by nH1N1 in the Southern Hemisphere very similar to that described in the US this past spring.
- Isolates sequenced at WHO and CDC suggest that circulating novel 2009-H1N1 influenza viruses look similar to A/California/07/2009 (the reference virus selected by WHO as a potential candidate for the new H1N1 vaccine).

[AUG 12] [Novel H1N1 Vaccination Guidance for State, Local, Tribal and Territorial Health Officials](#)

[ARCHIVED] [Previous CDC documents and updates](#)

## Center for Infectious Disease Research and Policy



[AUG 17] [UK expert panel urged against prescribing Tamiflu by phone](#)



[AUG 17] [British health officials ask neurologists to track GBS cases](#)

Link to recent BMJ clinical review article on Guillain-Barré:  
[http://www.bmj.com/cgi/content/extract/337/jul17\\_1/a671](http://www.bmj.com/cgi/content/extract/337/jul17_1/a671)



[AUG 17] [China rolls out tough school flu-prevention measures](#)



[AUG 17] [Quebec districts to keep pregnant teachers home this fall](#)

[AUG 14] [Officials lower expectations for size of first novel flu vaccine deliveries](#)

[AUG 14] [Osteoporosis drugs may be effective in killing flu viruses](#)

Researchers from Hong Kong have found that two osteoporosis drugs, pamidronate and zoledronate, might have potential as treatment for influenza, including the novel H1N1 and the H5N1 viruses, Reuters reported today.

[AUG 14] [CIDRAP authored Novel H1N1 Influenza \(Swine Flu\) overview](#)

[ARCHIVED] [Current overview and older updates from CIDRAP](#)

## Health Protection Agency (UK)

[AUG 13] [Weekly pandemic flu update](#)

- This week there has been a further reduction in the rates of flu-like illness and related activity.
- Weekly GP consultation rates decreased in England
- Majority of cases continue to be mild, no sign that virus is changing, becoming more severe or developing resistance to anti-virals.
- Interpretation of data to produce estimates on the number of new cases continues to be subject to a considerable amount of uncertainty with the move from GP consultations to the National Pandemic Flu Service. HPA modelling gives an estimate of 25,000 new cases in England last week (range 15,000 to 60,000). *There has been a decrease in estimated number of cases in all age groups and in all regions.*

[AUG 13] [Weekly Epidemiology Update for week ending Aug 9](#)

[ARCHIVED] [Swine Influenza page](#)

## Department of Health (UK)

[AUG 14] [Priority groups for vaccination against swine flu announced](#)

[AUG 13] [Exercise Cold Play II](#)

Exercise Cold Play II is a Department of Health funded exercise designed as an 'off the shelf' package for use by health organisations and partner organisations within the UK. It has been developed from experience gained in previous pandemic influenza exercises and is intended to provide a generic format which can be adapted to suit the selected target audience.

[ARCHIVE] [DH Pandemic Flu site](#)

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



[AUG 18] [ECDC Situation Report for Aug 18](#)

- 491 new cases reported in the EU and EFTA countries, reaching a total of 39 427 cases; Spain and Ireland reported one new death each; Malt reported first death
- 5 285 new cases including 34 fatal cases, were reported from non-EU and EFTA countries, reaching a cumulative total of 197 702 cases;

- [AUG 13] [Interim Guidance: Use of Specific Pandemic Influenza Vaccines during the H1N1 2009 Pandemic](#)
- [AUG 13] [The final report of the fourth meeting of ECDC's Surveillance and Studies in a pandemic \(SSiaP\) working group](#)
- [ARCHIVED] [Maps, surveillance summaries and previous ECDC updates](#)

## European Union



- [AUG 14] [Health Security Committee discusses vaccination issues and broader public health measures for influenza A \(H1N1\) 2009](#)
- [AUG 13] [Health Security Committee/Early Warning and Response System Statement on Influenza A\(H1N1\) Symptomatic Individuals Travelling](#)
- [AUG 13] [Health Security Committee/Early Warning and Response System Statement on School Closures](#)
- [ARCHIVE] [European Union Influenza H1N1 page](#)

## World Health Organization (WHO)

WHO no longer issues the global tables showing the numbers of confirmed cases for all countries. Regular updates describing the situation in the newly affected countries are provided.

- [AUG 12] [Pandemic \(H1N1\) 2009 - update 61](#)

Regions	Cumulative total	
	Cases*	Deaths
WHO Regional Office for Africa (AFRO)	591	1
WHO Regional Office for the Americas (AMRO)	102905	1274
WHO Regional Office for the Eastern Mediterranean (EMRO)	2346	7
WHO Regional Office for Europe (EURO)	Over 32000	53
WHO Regional Office for South-East Asia (SEARO)	9858	83
WHO Regional Office for the Western Pacific (WPRO)	26661	43
<b>Grand Total</b>	<b>177457</b>	<b>1462</b>

\*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.

[ARCHIVED] [WHO H1N1 Guidance Documents](#)

[ARCHIVED] [Older WHO Updates](#)

## Pan-American Health Organization (PAHO)

[AUG 14] [Regional Update for Aug 14: Pandemic \(H1N1\) 2009](#)

As of August 14, 2009, a total of 105,882 confirmed cases have been notified in all 35 countries in the Americas Region. A total of 1,579 deaths have been detected among the confirmed cases in 22 countries of the Region. Nicaragua and Venezuela reported their first deaths during epidemiological week 31.

[ARCHIVED] [PAHO Influenza A \(H1N1\) Portal](#)

## Australia and New Zealand



[AUG 18] [New Zealand Ministry of Health Situation Update 138](#)

The total number of confirmed cases of Pandemic Influenza (H1N1) 09 swine flu is 3067. The number of deaths from Pandemic Influenza (H1N1) 09 swine flu is 15. It's important to note these 15 deaths reported by the Ministry are deaths from swine flu, where swine flu was a primary cause of death. Other deaths are being investigated by the Coroner's office. 20 people are reported in hospitals with h1N1 or its complications.



[AUG 18] [Pandemic \(H1N1\) update bulletin, 12pm 18 August 2009 \(PDF 8 KB\)](#)

[Australia]

- 30 933 cases
- 118 deaths
- 3579 hospitalizations (cumulative); 445 currently with 94 in ICU

[ARCHIVED] [New Zealand's H1N1 page](#)

[ARCHIVED] [New Pandemic Phase Project - PROTECT Guidelines/Updates](#)

[Australia]

## Research Articles

*What's new today, plus a one week backfile. Articles with an asterisk (\*) indicate that a subscription is required to view the full text.*










[Medline literature search on H1N1](#) (current as of today)



[AUG 18] [Pandemic lessons from Australia](#)

Sweet M. Pandemic lessons from Australia. BMJ 2009;339:b3317. Published 18 August 2009, doi:10.1136/bmj.b3317



-  [AUG 18] [Influenza Immunization in Pregnancy](#) \*  
Macdonald NE, Riley LE, Steinhoff MC. *Obstet Gynecol.* 2009 Aug;114(2, Part 1):365-368.
-  [AUG 18] [Pandemic influenza: what obstetricians need to know](#) \*  
Phillippe M. *Obstet Gynecol.* 2009 Aug;114(2 Pt 1):206-8.
-  [AUG 17] [Preparing for pandemic \(H1N1\) 2009.](#)  
Hebert PC, MacDonald N. *Preparing for pandemic (H1N1) 2009.* (Editorial) *CMAJ.* 2009; 181: DOI:10.1503/cmaj.091426. Early release August 17, 2009.
-  [AUG 17] [Estimating the reproduction number of the novel influenza A virus \(H1N1\) in a Southern Hemisphere setting: preliminary estimate in New Zealand](#)  
Nishiura H, Wilson N, Baker MG. *N Z Med J.* 2009 Jul 24;122(1299):73-7.
-  [AUG 17] [A comparative study of the 1918-1920 influenza pandemic in Japan, USA and UK: mortality impact and implications for pandemic planning](#)  
Richard SA, Sugaya N, Simonsen L, Miller MA, Viboud C. *Epidemiol Infect.* 2009 Aug;137(8):1062-72.
-  [AUG 15] [Viral loads and duration of viral shedding in adult patients hospitalized with influenza](#)  
Lee N, Chan PK, Hui DS, Rainer TH, Wong E, Choi KW et al. *J Infect Dis.* 2009 Aug 15;200(4):492-500.
-  [AUG 15] [Influenza in hospitalized adults: gaining insight into a significant problem.](#)  
Ison MG. *J Infect Dis.* 2009 Aug 15;200(4):485-8
-  [AUG 14] [Ruling Out Novel H1N1 Influenza Virus Infection with Direct Fluorescent Antigen Testing.](#)  
Pollock NR, Duong S, Cheng A, Han LL, Smole S, Kirby JE. *Clin Infect Dis.* 2009 Aug 14. [Epub ahead of print]
-  [AUG 13] [Strategies for Pandemic and Seasonal Influenza Vaccination of Schoolchildren in the United States.](#)  
Basta NE, Chao DL, Halloran ME, Matrajt L, Longini IM Jr. *Am J Epidemiol.* 2009 Aug 13. [Epub ahead of print]
-  [AUG 12] [Potential for a global dynamic of Influenza A \(H1N1\)](#)  
Flahault A, Vergu E, Boelle PY. *Potential for a global dynamic of Influenza A (H1N1).* *BMC Infectious Diseases* 2009, **9**:129 (12 August 2009)
- [AUG 6] [August 6, 2009 H1N1 issue of Eurosurveillance \(whole issue\)](#)
- [AUG 14] [Oseltamivir-Resistant Novel Influenza A \(H1N1\) Virus Infection in Two Immunosuppressed Patients --- Seattle, Washington, 2009](#)  
Centers for Disease Control. *MMWR* August 14, 2009 / 58 (Dispatch);1-4

- [AUG 14] [Epidemiological and transmissibility analysis of influenza A\(H1N1\)v in a southern hemisphere setting: Peru](#)  
Munayco CV, Gómez J, Laguna-Torres VA, et al. Epidemiological and transmissibility analysis of influenza A(H1N1)v in a southern hemisphere setting: Peru. Euro Surveill. 2009;14(32).
- [AUG 14] [What will the next influenza season bring about: seasonal influenza or the new A\(H1N1\)v? An analysis of German influenza surveillance data](#)  
Upphoff H, Geis S, Grüber A, Hauri AM. What will the next influenza season bring about: seasonal influenza or the new A(H1N1)v? An analysis of German influenza surveillance data. Euro Surveill. 2009;14(32).
- [AUG 13] [Poverty, wealth, and access to pandemic influenza](#)  
Yamada T. Poverty, Wealth, and Access to Pandemic Influenza Vaccines. N Engl J Med. 2009 Aug 12. [Epub ahead of print]
- [AUG 13] [In vitro and in vivo characterization of new swine-origin H1N1 influenza viruses](#)  
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. [Epub ahead of print]
- [AUG 13] [Rapid-Test Sensitivity for Novel Swine-Origin Influenza A \(H1N1\) Virus in Humans](#)  
Faix DJ, Sherman SS, Waterman SH. Rapid-test sensitivity for novel swine-origin influenza A (H1N1) virus in humans. N Engl J Med. 2009 Aug 13;361(7):728-9. Epub 2009 Jun 29.
- [AUG 13] [Vaccine refusal and the risk of vaccine-preventable diseases](#)  
Gill DG. Vaccine refusal and the risk of vaccine-preventable diseases. N Engl J Med. 2009; 361(7): 723-24.
- [AUG 13] [Severe Respiratory Disease Concurrent with the Circulation of H1N1 Influenza](#)  
Chowell G et al. Severe Respiratory Disease Concurrent with the Circulation of H1N1 Influenza. N Engl J Med. 2009; 361(7): 674-79.
- [AUG 13] [Pneumonia and Respiratory Failure from Swine-Origin Influenza A \(H1N1\) in Mexico](#)  
Perez-Padilla R et al. Pneumonia and Respiratory Failure from Swine-Origin Influenza A (H1N1) in Mexico. N Engl J Med. 2009; 361(7): 680-89.
- [AUG 13] [Neuraminidase inhibitors for treatment and prophylaxis of influenza in children: systematic review and meta-analysis of randomised controlled trials](#)  
P Shun-Shin M, Thompson M, Heneghan C, et al. Neuraminidase inhibitors for treatment and prophylaxis of influenza in children: systematic review and meta-analysis of randomised controlled trials. BMJ. 2009 Aug 10;339:b3172.

- [AUG 12] [How to maintain surveillance for novel influenza A H1N1 when there are too many cases to count\\*](#)  
Lipsitch M, Hayden FG, Cowling BJ, Leung GM. How to maintain surveillance for novel influenza A H1N1 when there are too many cases to count. Lancet. 2009 Aug 12. [Epub ahead of print]
- [AUG 12] [Detection of novel \(swine origin\) H1N1 influenza A virus by quantitative real-time reverse transcription-PCR](#)  
Wang R, Sheng ZM, Taubenberger JK. Detection of novel (swine origin) H1N1 influenza A virus by quantitative real-time reverse transcription-PCR. J Clin Microbiol. 2009 Aug;47(8):2675-7.
- [AUG 12] [Transparency during public health emergencies: from rhetoric to reality](#)  
O'Malley P, Rainford J, Thompson A. Transparency during public health emergencies: from rhetoric to reality. WHO Bulletin J Clin Microbiol. 2009 Aug;87(8):565-644.
- [AUG 12] [Full issue of \*Lancet Infectious Diseases\* dedicated to H1N1\\*](#)
- [AUG 12] [Human swine influenza A \[H1N1\]: practical advice for clinicians early in the pandemic\\*](#)  
Fitzgerald DA. Human swine influenza A [H1N1]: practical advice for clinicians early in the pandemic. Paediatr Respir Rev. 2009 Sep;10(3):154-8. Epub 2009 Jul 16.
- [AUG 12] [Understanding influenza backward](#)  
Morens DM, Taubenberger JK. Understanding influenza backward. JAMA. 2009 Aug 12;302(6):679-80. Comment.
- [AUG 3] [Facemasks and hand hygiene to prevent influenza transmission in households: A randomized trial](#)  
Cowling BJ, Chan KH, Fang VJ, Cheng CK, Fung RO, Wai W et al. Facemasks and hand hygiene to prevent influenza transmission in households: A randomized trial. Ann Intern Med. 2009 Aug 3. [Epub ahead of print]
- [AUG 3] [Safety and efficacy of extended-duration antiviral chemoprophylaxis against pandemic and seasonal influenza](#)  
Khazeni N, Bravata DM, Holty JE, Uyeki TM, Stave CD, Gould MK. Safety and efficacy of extended-duration antiviral chemoprophylaxis against pandemic and seasonal influenza. Ann Intern Med. 2009 Aug 3. [Epub ahead of print]

## Business Resources

### Harvard Health Publications

- [ARCHIVED] [Business Preparedness for Pandemic: Executive Briefing for Corporate and Governmental Decision-makers](#)
- [ARCHIVED] [Link to report from U.S. Government Accountability Office re Pandemic Planning and funding](#)

## Canadian Business

[ARCHIVED] [H1N1 virus: A Plan for the Worst](#)

## Consumer Health Information Resources

[ARCHIVED] [Krames Patient Education Handouts - H1N1 Flu Virus](#)

[ARCHIVED] [MEDLINEplus - H1N1 Flu \(Swine Flu\)](#)

[ARCHIVED] [Specialized Information Service - National Library of Medicine](#)

[ARCHIVED] [Tufts University - \(SPIRAL\) Selected Patient Information in Asian Languages](#)

## Other Scientific Resources



[AUG 18] [eMedicine N1N1 overview](#)

[JUNE 17] [White paper on novel H1N1](#)

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.

## Clinical and Public Health Practice Tools

[AUG'09] The Public Health Agency of Canada in collaboration with the Canadian Public Health Association, the Professional Development & Conferencing Services, Faculty of Medicine, Memorial University is pleased to introduce a new continuing medical education (CME) online course.

Created in consultation with front-line clinicians and infectious disease experts from across Canada, the [Infectious Disease Outbreaks: Tools and strategies for front-line clinicians](#) course is evidence-based and focuses on the coordination between clinical care, public health and the laboratory.

[JUNE 15] [Algorithms from 18 US states to assist in decisions regarding testing and treatment of H1N1](#)

## Historical Resources



[AUG 17] [A comparative study of the 1918-1920 influenza pandemic in Japan, USA and UK: mortality impact and implications for pandemic planning.](#)

Richard SA, Sugaya N, Simonsen L, Miller MA, Viboud C. Epidemiol Infect. 2009 Aug;137(8):1062-72.

[JUN 30] [Swine flu of 1976: lessons from the past. An interview with Dr Harvey V Fineberg](#)

Fineberg HV. Swine flu of 1976: lessons from the past. An interview with Dr Harvey V Fineberg. Bull World Health Organ. 2009 Jun;87(6):414-5.

[JUN 29] [The Persistent Legacy of the 1918 Influenza Virus. New England Journal of Medicine.](#)

Morens DM, Taubenberger JK, Fauci AS. The persistent legacy of the 1918 influenza virus. N Engl J Med. 2009 Jul 16;361(3):225-9. Epub 2009 Jun 29.

[JUN 29] [Historical Perspective — Emergence of Influenza A \(H1N1\) Viruses. New England Journal of Medicine](#)

Zimmer SM, Burke DS. Historical perspective--Emergence of influenza A (H1N1) viruses. N Engl J Med. 2009 Jul 16;361(3):279-85. Epub 2009 Jun 29.

[ARCHIVED] [Nonpharmaceutical Interventions Implemented by US Cities During the 1918-1919 Influenza Pandemic](#)

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.

[ARCHIVED] [The Swine Flu Affair: Decision-Making on a Slippery Disease](#)

Neustadt RE, Fineberg HV. The Swine Flu Affair: Decision-Making on a Slippery Disease. Washington: US Department of Health, Education, and Welfare; 1978. Online book.

## Travel Advisories

[MAY 19] [Public Health Agency of Canada no longer recommends Canadians postpone elective or non-essential travel to Mexico](#)