pH1N1 Flu Virus (Human Swine Influenza)
Information Resources
Current as of June 18, 2010 at 12 pm

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Current / Upcoming

[JUN 21-22]  **H1N1: The world responds to a 21st century pandemic** (London, UK)
This international conference will bring together scientists, academics and public health professionals to examine what we have learned since the appearance of H1N1 in April 2009, and the knowledge gained from the global effort can be used in preparing for future pandemic response.

Archived

[ARCHIVED]  **COCA conference calls**

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**Questions and Answers: Average and Median Ages of 2009 H1N1-Related Deaths in the United States, Spring and Fall 2009**
This document provides information about the average and median ages of 2009 H1N1-related deaths that occurred in the United States in the spring and fall of 2009.

**The 2009 H1N1 Pandemic: Summary Highlights of CDC's Response, April 2009- April 2010**
This document summarizes key events of the 2009 H1N1 pandemic and CDC's response activities for historical purposes.

**London Assembly Pandemic Report**

**Pandemic exposed gaps in Canada's planning** (2010-06-08)
Canada's response to the H1N1 pandemic was one of confusion, says a white paper being presented today at the World Conference on Disaster Management in Toronto.

WHO responds to current critical scrutiny:

  **WHO Director-General’s letter to BMJ editors** (2010-06-08)
  **The international response to the influenza pandemic: WHO responds to the critics** (2010-06-10)

**Systems previously installed are more effective during crisis: Influenza experts conclude** (2010-06-11)
During the Annual Meeting of the European Influenza Surveillance Network (EISN), participants concluded that based on “countries’ experiences, systems installed prior to a crisis are easier to activate and are more effective during the actual event.” The meeting report will be available shortly.

**Expert warns against H1N1 complacency** (2010-06-08)
British virologist John Oxford stated at a recent Dublin conference that "It's too early to do a postmortem" on the pandemic H1N1 flu virus. He predicted it will cause trouble again in the coming winter.
Much of Hong Kong vaccine to be tossed (2010-06-10)

The Domestic and International Impacts of the 2009-H1N1 Influenza A Pandemic: Global Challenges, Global Solutions: Workshop Summary
Institute of Medicine of the National Academies.

Lessons Learned: Literature

Building trust through social media. CDC’s experience during the H1N1 influenza response*

Model predictions and evaluation of possible control strategies for the 2009 A/H1N1v influenza pandemic in Italy*

Pandemic influenza preparedness and response in Israel: A unique model of civilian-defense collaboration*

Comparative age distribution of influenza morbidity and mortality during seasonal influenza epidemics and the 2009 H1N1 pandemic

Studies Needed to Address Public Health Challenges of the 2009 H1N1 Influenza Pandemic: Insights from Modeling

Pandemic influenza preparedness and health systems challenges in Asia: results from rapid analyses in 6 Asian countries

If you ask them, will they come? Predictors of quarantine compliance during a hypothetical avian influenza pandemic: results from a statewide survey*

Accounting for vulnerability to illness and social disadvantage in pandemic critical care triage*

Portrait of a year-old pandemic
Geographical spread of highly pathogenic avian influenza virus H5N1 during the 2006 outbreak in Austria*

The first wave of pandemic influenza (H1N1) 2009 in Germany: from initiation to acceleration

Permissive secondary mutations enable the evolution of influenza oselatamivir resistance*

Economics of avian influenza management and control in a world with competing agendas*

A year of H1N1 influenza statistics

Ministry of Health and Long-Term Care [back to top]

[ARCHIVED] Previous MOHLTC updates and news conference video footage

Ontario Agency for Health Protection and Promotion [back to top]
No items of interest this week.

ARCHIVED] Swine influenza outbreak page

Public Health Agency of Canada (PHAC) [back to top]
Travel Notice (2010-06-11)

[ARCHIVED] Previous PHAC documents and updates

Centers for Disease Control and Prevention (CDC) & US Department of Health and Human Services [back to top]
Questions and Answers: Average and Median Ages of 2009 H1N1-Related Deaths in the United States, Spring and Fall 2009
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NEW: The 2009 H1N1 Pandemic: Summary Highlights of CDC's Response, April 2009-April 2010
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[ARCHIVED] Previous CDC documents and updates

Center for Infectious Disease Research and Policy [back to top]

Chest x-ray may underestimate infections (2010-06-17)
To gauge the relationship between symptoms and signs of disease on radiographic tests, researchers reviewed records of 157 hospitalized patients who had confirmed pandemic H1N1 infections. Researchers report in the British Journal of Radiology that chest x-ray abnormalities were found in only 33% of cases and were linked to breathing difficulties. The test was less sensitive than computed tomography among immunocompromised patients.

Autopsy study finds unique traits of H1N1 flu (2010-06-17)
An autopsy study of H1N1 patients found peripheral pulmonary vascular thrombosis occurred in 5 of the 8 fatal cases, compared with 3 of 8 controls, according to an American Journal of Clinical Pathology report. Researchers also found cytophagocytosis in all of the flu-related cases. They found that the two features distinguished H1N1 cases from other flu types and that hemophagocytic syndrome should be suspected in severe H1N1 patients.

London reviews its pandemic flu response (2010-06-16)
A report today from the London Assembly gave high marks to the local pandemic response, but listed several areas for improvement. The report, based on several meetings of health officials, said the pandemic plan should have considered a range of severity scenarios and that antiviral distribution points weren't evenly dispersed. Requests for data from multiple agencies sometimes overburdened local officials, and more efforts were needed to reach vulnerable groups and improve immunization rates.

India's health ministry to probe increase in cases (2010-06-16)
A team from India's health ministry will assess a rise in pandemic flu illnesses and deaths in Kerala state that occurred over the past month after a monsoon hit the area, Indo-Asian News Service reported yesterday. Since May 15, 201 cases and 16 deaths have been reported, of which 9 were pregnant women. An official said extra antiviral medication and vaccines are being deployed to the area. Four flu deaths were also recently reported from two other Indian states, Maharashtra and Karnataka.

Contrasting vaccine supplies in Malta, Kuala Lumpur (2010-06-15)
Only 92,043 doses of pandemic H1N1 vaccine were dispensed in Malta, and the government has 239,620 remaining. No decision has been made on what to do with the leftovers. It is estimated that the country spent 2.5 to 3 million euros on the stockpile. The situation is reversed in Kuala Lumpur, Malaysia, according to bernama.com, the country's national news agency. Only about 31,000 doses remain of the 400,000 purchased.

Record numbers vaccinated in New Zealand (2010-06-15)
The health minister of New Zealand says more than 1 million in the country have received flu vaccinations this year, setting a record, according to the New Zealand Press Association (NZPA). Last year 960,000 people were vaccinated. This year's flu shot includes the H1N1 pandemic strain. Cases of flu-like illness have increased in New Zealand over the past 2 weeks, with 18 pandemic H1N1 cases so far this year, and health officials are continuing to promote vaccination.
Vietnam considers lowering H1N1 alert level (2010-06-14)
The deputy minister of health in Vietnam has suggested lowering the alert level for pandemic H1N1 flu there, given that Vietnam has had no reports of the disease for more than 2 months. The World Health Organization (WHO) has not suggested this move, but the minister said the health ministry had "heard" that the WHO had blown the pandemic out of proportion at the urging of pharmaceutical companies, an accusation the WHO strongly refutes.

Australian girl’s autopsy shows no vaccine link (2010-06-14)
Autopsy results show no evidence linking the April death of a 2-year-old Brisbane girl to the trivalent seasonal flu vaccine she had received a day earlier. But no clear cause of death was found, leaving some observers unconvinced. Because of increased adverse reactions, the seasonal vaccine is on hold for Australian children under 5.  

Seroconversion with oseltamivir prophylaxis (2010-06-11)
Postexposure prophylaxis an effective way to mitigate pandemic flu outbreaks, says a study published today. The authors tested 237 military members in Singapore during and after oseltamivir prophylaxis. Infection occurred in 27 (11.4%), including 11 index cases and 16 people with a four-fold or more rise in antibody titers during treatment; 8 of these had symptoms and 8 did not. The authors say asymptomatic infections that occur during prophylaxis may confer protection against future infection.

Pandemic officially a year old (2010-06-11)
Today marks the passage of a year since the World Health Organization (WHO) declared a pandemic of H1N1 influenza. WHO Director Margaret Chan declared phase 6 on Jun 11, 2009, about 7 weeks after the virus had surfaced. The WHO hesitated to take the step because of concern that it would cause undue alarm, given that H5N1 avian flu had led the public to associate "pandemic" with high death rates. Although H1N1 activity is now low in most of the world, the WHO has maintained the phase 6 alert.

Limited global pandemic cases continue (2010-06-11)
This week's flu surveillance report from the WHO indicates active but declining H1N1 flu transmission in limited tropical areas--specifically Singapore, Malaysia, Bangladesh, and Cuba. As the Southern Hemisphere enters its winter season, early H1N1 activity has been noted in Chile and Uruguay, plus increasing but low levels of seasonal H3N2 and influenza B over South America and H3N2 in East Africa.

WHO defends pandemic actions, says rules need tightening (2010-06-10)
The World Health Organization (WHO) replied at greater length today to recent criticism of the way it used science advisors in pandemic planning, defending its response to the H1N1 flu pandemic but allowing that its policies concerning transparency and relations with the pharmaceutical industry need strengthening.

Three countries report growing flu activity (2010-06-10)
Some parts of India and Colombia are reporting increases in pandemic flu activity, along with some deaths, while New Zealand, which is beginning its regular flu season, is reporting a rise in flu-like illnesses, particularly in young children.

Much of Hong Kong vaccine to be tossed (2010-06-10)
Only 200,000 of the 3 million H1N1 vaccine doses available in Hong Kong were administered, and the expiration date on the 2.8 million unused doses is approaching. The doses destined for the trash in October cost about $28.2 million US. Hong Kong offered the vaccine free to health professionals, pregnant women, babies, the elderly, and patients at risk, but safety concerns in the population after several complications in recipients reduced demand.
**Greece data profile two waves of H1N1** (2010-06-10)
Data gathered in Greece from May 18, 2009, through Feb 28, 2010, showed two waves of pandemic H1N1, a milder one in July-August and a stronger one that peaked Nov 23 to 29. A total of 18,075 lab-confirmed cases were reported, including 294 admissions to intensive care and 140 deaths. Of patients who died, 115 (82.1%) had at least one underlying medical condition, the most common being obesity, diabetes, and cardiovascular disease; 89 (63.5%) were under 60 years of age, with 8 (5.7%) under 19.

**Studies examine H1N1 spread in military units, households** (2010-06-09)
When the H1N1 pandemic influenza began hitting Singapore's military forces last summer, health officials largely arrested its spread by giving oseltamivir to everyone in the affected units, in combination with other preventive steps, according to a report released today.

**WHO director replies to BMJ critique of pandemic actions** (2010-06-08)
The head of the World Health Organization (WHO), responding today to recent criticism of WHO policies regarding conflicts of interest and transparency, said the agency needs to tighten its rules for relations with industry but insisted that commercial interests never influenced her decisions regarding the H1N1 influenza pandemic.

**Expert warns against H1N1 complacency** (2010-06-08)
British virologist John Oxford stated at a recent Dublin conference that "It's too early to do a postmortem" on the pandemic H1N1 flu virus. He predicted it will cause trouble again in the coming winter. People need to be aware of how to limit its spread, and decisions need to be based on science, he said. As for vaccine, he stated, "It's no time to be complacent and say we wasted our money on vaccines, because we haven't. This is a virus that will be in the community for a long time."

**Pandemic exposed gaps in Canada's planning** (2010-06-08)
Canada's response to the H1N1 pandemic was one of confusion, says a white paper being presented today at the World Conference on Disaster Management in Toronto. Serious gaps in the country's pandemic planning and unrealistic management guidelines were exposed, it says. Dr. Allan Holmes, who moderated the roundtable discussion on which the report was based, said a single pan-Canadian approach to planning is needed, along with a severity index to put future outbreaks in context.

**Review shows Tamiflu safe, effective in babies** (2010-06-08)
Little is known about the safety and efficacy of oseltamivir (Tamiflu) in infants, but German researchers who reviewed cases of babies hospitalized with influenza found the drug yielded benefits similar to those in older children, though mild gastrointestinal symptoms were more common.

**Pandemic review committee to look at new reports** (2010-06-08)
Dr Harvey Fineberg, chairman of the World Health Organization's (WHO's) pandemic review committee, said the group would consider new reports published by the British Medical Journal and the Council of Europe that are critical of the WHO's H1N1 response, Agence France-Presse reported today. He said the committee's second meeting will be Jun 30 to Jul 2 in Geneva. The two reports, dismissed by some experts, say conflicts of interest may have swayed WHO decisions on vaccines and antivirals.

**German study compares summer, fall waves of cases** (2010-06-08)
A study of case-based surveillance in Germany suggests that school holidays and containment efforts may have led to differences in summer and fall 2009 pandemic flu waves, according to a report today in BMC Infectious Diseases. Increased fall spread didn't change risk groups or
severity, but the affected age-groups trended younger and the number of people with underlying medical conditions increased slightly. The authors said a case-based approach can help guide public health measures.

[ARCHIVED] Current overview and older updates from CIDRAP

United Kingdom [back to top]

HPA Weekly National Influenza Report Summary of UK surveillance of influenza and other seasonal respiratory illnesses 17 June 2010 (Week 24)

HPA Weekly National Influenza Report Summary of UK surveillance of influenza and other seasonal respiratory illnesses 10 June 2010 (Week 23)

[ARCHIVED] Health Protection Agency swine influenza page

Europe [back to top]

Systems previously installed are more effective during crisis: Influenza experts conclude (2010-06-11)

During the Annual Meeting of the European Influenza Surveillance Network (EISN), participants concluded that based on “countries’ experiences, systems installed prior to a crisis are easier to activate and are more effective during the actual event.” The meeting report will be available shortly.

Main surveillance developments in weeks 22–23 2010 (31 May 2010–13 Jun 2010)*

* From this point (week 23/2010) until week 40/2010, the influenza overview will be reported on a bi-weekly basis.


Information from Member States, Candidates, EEA and EFTA countries (Interactive map)

[ARCHIVE] Maps, surveillance summaries and previous ECDC updates

[ARCHIVE] European Union Influenza H1N1 page

Australia and New Zealand [back to top]

Pandemic Influenza H1N1 2009 (swine flu) – Update 190

Pandemic Influenza H1N1 2009 (swine flu) – Update 189

The number of consultations for influenza-like illness has been increasing slowly, particularly over the past two weeks. Many general practices are seeing more young children who are unwell. There is certainly evidence of winter illnesses in the community and the predominant influenza virus is likely to be the pandemic strain.
Healthline, New Zealand’s free health 24 hour health advice line is also seeing a steady increase in
the number of calls regarding people with influenza-like illnesses - there’s been a noticeable
increase in the number of people calling for advice about illness in young children.

AUSTRALIAN INFLUENZA SURVEILLANCE REPORT No. 22, 2010,
REPORTING PERIOD: 29 May 2010 – 4 June 2010

Influenza Surveillance Report No. 21 for the week ending 28 May 2010 (PDF 257 KB)

[ARCHIVED] New Zealand’s H1N1 page

[ARCHIVED] Australia’s H1N1 Update Bulletins

Pan-American Health Organization [back to top]

Regional Update, Pandemic (H1N1) 2009. (Published on June 14, 2010)

[ARCHIVED] PAHO Influenza A (H1N1) Portal

World Health Organization (WHO) [back to top]

In focus: WHO responds to current critical scrutiny
In a letter to BMJ editors dated 8 June 2010, the Director-General strongly refuted allegations of
conflicts of interest leveled at WHO in a recent editorial and feature published in the medical
journal. "At no time, not for one second, did commercial interests enter my decision-making", said
the Director-General.

The international response to the influenza pandemic: WHO responds to the critics
10 June 2010

Pandemic (H1N1) 2009 - update 105
18 June 2010

11 June 2010
Pandemic (H1N1) 2009 - update 104

[ARCHIVED] WHO H1N1 Guidance Documents

[ARCHIVED] Older WHO Updates

Research Articles [back to top]

Medline literature search on H1N1 (current as of today)

Brevia: Reassortment of Pandemic H1N1/2009 Influenza A Virus in Swine*

Letter: Influenza Vaccination of Children and Infection Rates in the Community*
Reply: Influenza Vaccination of Children and Infection Rates in the Community—Reply

News: WHO admits to “inconsistencies” in its policy on conflicts of interest

2009 pandemic influenza A(H1N1) virus in Scotland: geographically variable immunity in Spring 2010, following the winter outbreak

Transmissibility of 2009 pandemic influenza A(H1N1) in New Zealand: effective reproduction number and influenza of age, ethnicity and importations

Editorial: Influenza vaccination: lessons learned from the pandemic (H1N1) 2009 influenza outbreak

2009 H1N1 Influenza inHospitalized Transplant Recipients

Enrolling pregnant women in research—lessons from the H1N1 influenza pandemic

Sensitivity of influenza rapid diagnostic tests to H5N1 and 2009 pandemic H1N1 viruses

The duty to treat in the context of an influenza pandemic
van der Weijden CP, Bredenoord AL, van Delden JJ. Vaccine. 2010 Jun 5. [Epub ahead of print]

The 2009 A (H1N1) influenza virus pandemic: A review
Girard MP, Tam JS, Assoussou OM, Kieny MP. Vaccine. 2010 May 26. [Epub ahead of print]

Letter: Possible life-threatening adverse reaction to monovalent H1N1 vaccine

Swine flu, doctors and pandemics: is there a duty to treat during a pandemic?

Reconstructing disease outbreaks from genetic data: a graph approach
**Novel H1N1 influenza and Panton-Valentine leukocidin Staphylococcus aureus necrotizing pneumonia***

**Autopsy Findings in Eight Patients With Fatal H1N1 Influenza**

**Pulmonary imaging of pandemic influenza H1N1 infection: relationship between clinical presentation and disease burden on chest radiography and CT**

**Molecular Evolutionary Analysis of the Influenza A(H1N1)pdm, May-September, 2009: Temporal and Spatial Spreading Profile of the Viruses in Japan**

**2009 Seasonal and H1N1 influenza vaccination compliance in asthmatic children and adults**

**Seroepidemiological studies of pandemic influenza A (H1N1) 2009 virus**

**Editorial: Vaccinate before the next pandemic?**

**A pandemic response to a disease of predominantly seasonal intensity**

**GM-CSF Increases Mucosal and Systemic Immunogenicity of an H1N1 Influenza DNA Vaccine Administered into the Epidermis of Non-Human Primates**

**Detection of Extensive Cross-Neutralization between Pandemic and Seasonal A/H1N1 Influenza Viruses Using a Pseudotype Neutralization Assay**

**Live attenuated influenza virus vaccines by computer-aided rational design**

**Grid-based International Network for Flu Observation (g-INFO)***

**Engineering responses to pandemics**

**Influenza Virus Evolution, Host Adaptation, and Pandemic Formation**
Protection of trivalent inactivated influenza vaccine against hospitalizations among pandemic influenza A (H1N1) cases in Argentina*
Orellano PW, Reynoso JI, Carlino O, Uez O. Vaccine. 2010 Jun 9. [Epub ahead of print]

Immune response after a single vaccination against 2009 influenza A H1N1 in hemodialysis patients*

An adjuvant for the induction of potent, protective humoral responses to an H5N1 influenza vaccine with antigen-sparing effect in mice*

Seasonal Influenza Vaccination Coverage Among Local Health Department Personnel in North Carolina, 2007-2008*

Identifying areas for infectious animal disease surveillance in the absence of population data: Highly pathogenic avian influenza in wild bird populations of Europe*

Seroconversion and asymptomatic infections during oseltamivir prophylaxis against Influenza A H1N1 2009

Travel-Related Influenza A/H1N1 Infection at a Rock Festival in Hungary: One Virus May Hide Another One*

Ecology of avian influenza viruses in a changing world*

Proteomics search of influenza A viruses for adaptive mutations to human hosts*

A new common mutation in the hemagglutinin of the 2009 (H1N1) influenza A virus

Deaths and Hospitalizations Related to 2009 Pandemic Influenza A (H1N1) --- Greece, May 2009--February 2010

An Outbreak of Novel Influenza A (H1N1) in the English Language Institute
The perennial threat of influenza pandemics*

Plasma Concentrations of Oseltamivir and Oseltamivir Carboxylate in Critically Ill Children on Extracorporeal Membrane Oxygenation Support

Low Clinical Burden of 2009 Pandemic Influenza A (H1N1) Infection during Pregnancy on the Island of La Réunion

Council of Europe condemns "unjustified scare" over swine flu

Letter: Pandemic (H1N1) 2009 influenza, pregnancy and extracorporeal membrane oxygenation

Low Seroprotection against Preseasonal Influenza Local Strains in Children Might Predict the Upcoming Epidemic Influenza Strains

Determination of antibody response to the human pandemic influenza H1N1 2009 among patients with influenza-like illness and high risk groups

Planning, Preparedness, and Response to H1N1 and Seasonal Influenza.

A point-of-care test for H1N1 influenza.
Wiwanitkit V. Disaster Med Public Health Prep. 2010 Jun;4(2):100; author reply 100-1. No abstract available.

Comment: Conflicts of interest and pandemic flu

WHO and the pandemic flu "conspiracies"

The virulence of pandemic influenza A (H1N1) 2009: an epidemiological perspective on the case-fatality ratio*

Influenza infection and vaccination in pregnant women*
Outcomes of adults hospitalised with severe influenza*

Clinical characteristics of fatalities due to influenza A (H1N1) virus in Mexico*

Editorial: Impact of the 2009 influenza pandemic*

Clinical Features, Risk Factors, and Complications Among Pediatric Patients With Pandemic Influenza A (H1N1)*

Letter: Unusual Nosocomial Exposure to H1N1 Influenza Virus via Open-Chest Cardiac Massage*

Could autoimmunity be induced by vaccination?*

Practical high pathogenicity avian influenza first-response training exercises*

Postoutbreak disinfection of mobile equipment*

Role of real-time RT-PCR platform technology in the diagnosis and management of notifiable avian influenza outbreaks: experiences in Great Britain*

Continued evolution of H5N1 influenza viruses in wild birds, domestic poultry and humans in China from 2004 to 2009

A systemic review to inform institutional decisions about the use of extracorporeal membrane oxygenation during the H1N1 influenza pandemic*

Editorial: 2009 H1N1 virus transmission and outbreaks

Comparative epidemiology of pandemic and seasonal influenza A in households

Oseltamivir ring prophylaxis for containment of 2009 H1N1 influenza outbreaks
Prevalence of preventive behaviors and associated factors during early phase of the H1N1 influenza epidemic

A monoclonal antibody kit for identification of the novel 2009 H1N1 influenza A virus

Risk factors for severe complications of the novel influenza A(H1N1): analysis of patients hospitalized in Italy

Oseltamivir-resistant influenza A(H1N1) viruses in south of France, 2007-2009
Casalegno JS, Bouscambert-Duchamp M, Caro V. Antiviral Res. 2010 Jun 1. [Epub ahead of print]