



Michigan Department of Community Health, 201 Townsend Street, Lansing, MI 48933

NATIONAL ADULT AND INFLUENZA IMMUNIZATION SUMMIT

The 2013 National Adult and Influenza Immunization Summit was held May 14-16, 2013 in Atlanta, GA. All the presentation slides have been posted [online](#). Flu topics included vaccination coverage in 2012-13, updates on vaccine effectiveness, and communication strategies for the upcoming 2013-14 season.

INFLUENZA-RELATED JOURNAL ARTICLES

- A new study was published in Nature that indicates researchers may be one step closer to developing a [universal flu vaccine](#).
- Researchers found only 7 rigorous studies out of more than 2,000 assessed that were conducted during 2009 H1N1 addressed [non-antiviral clinical interventions](#). Authors stressed the need for development of outbreak-ready research capacity in high- and low-resource settings.
- Study findings show that during the 2009 H1N1 pandemic, [excess death rates](#) were highest among 25- to 64-year-olds.

OFFICE OF PUBLIC HEALTH PREPAREDNESS NEWSLETTER

Michigan's Office of Public Health Preparedness has posted the [latest issue](#) of their newsletter, The Guardian of Public Health. This issue contains information on H7N9, including a link to National Association of County and City Health Officials' (NACCHO) new website featuring H7N9 preparedness resources for local health departments.

INFLUENZA-RELATED NEWS ARTICLES

- [Finnish scientists report H1N1 flu shot may raise adult narcolepsy risk](#)
- [New textile able to absorb more flu antibodies](#)
- [Predicting infectious influenza](#)

H5N1 AVIAN INFLUENZA

News articles

- [H5N1 SICKENS CAMBODIAN GIRL](#)

FLU WEBSITES

www.michigan.gov/flu
www.cdc.gov/flu
www.flu.gov
<http://vaccine.healthmap.org/>

AVIAN INFLUENZA A (H7N9)

In the past week, the World Health Organization (WHO) did not report any additional human infections with avian influenza A (H7N9) in China. To date, about 25% of cases have died. The Chinese Center for Disease Control and Prevention is updating case counts weekly. At this time there is still no sustained human-to-human transmission. Vaccines are in development in the event that H7N9 takes on pandemic characteristics. There is no recommendation against travel to China at this time.

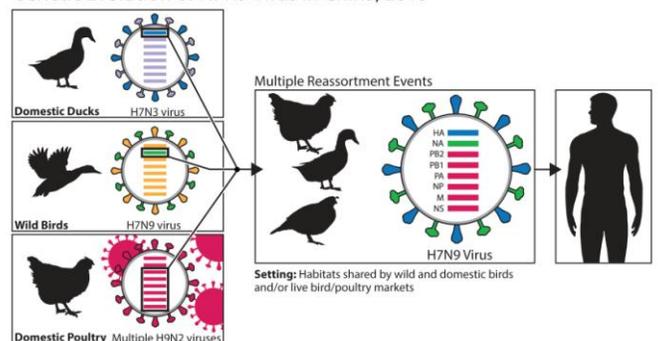
Related Articles:

- NEJM: [Clinical Findings in 111 Cases](#)
- Science: [Infectivity, Transmission, and Pathology of Human H7N9 Influenza in Ferrets and Pigs](#)
- Annals of Internal Medicine: [From Anxiety to Preparedness](#)
- [Population-level antibody estimates to novel influenza A/H7N9](#)
- [Some Chinese provinces step down emergency levels](#)

The following resources about H7N9 are available:

- The U.S. Centers for Disease Control & Prevention (CDC) is posting updated information on the situation [here](#).
 - [Selected H7N9 Publications and Resources](#)
- Situation updates are being posted by:
 - [WHO](#)
 - [Chinese Center for Disease Control & Prevention](#)
 - [European Centers for Disease Prevention & Control](#)
 - [Center for Infectious Disease Research & Policy](#)

Genetic Evolution of H7N9 Virus in China, 2013



The eight genes of the H7N9 virus are closely related to avian influenza viruses found in domestic ducks, wild birds and domestic poultry in Asia. The virus likely emerged from "reassortment," a process in which two or more influenza viruses co-infect a single host and exchange genes. This can result in the creation of a new influenza virus. Experts think multiple reassortment events led to the creation of the H7N9 virus. These events may have occurred in habitats shared by wild and domestic birds and/or in live bird/poultry markets, where different species of birds are bought and sold for food. As the above diagram shows, the H7N9 virus likely obtained its HA (hemagglutinin) gene from domestic ducks, its NA (neuraminidase) gene from wild birds, and its six remaining genes from multiple related H9N2 influenza viruses in domestic poultry.



Source: CDC (<http://www.cdc.gov/flu/avianflu/h7n9-images.htm>)

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