

## **Novel Influenza A H1N1 Update – CDC BioPHusion Special Report** **05/21/2009**

### **SECTION 1. Cases by state or country**

**United States - Updated** As of May 21, 2009, 12:00 AM ET -- <http://www.cdc.gov/h1n1flu/>

- **Total U.S. laboratory-confirmed and probable human cases reported to CDC by state, territorial, or the District of Columbia health authorities (and change since previous report) – 5,764 (+54)**
- **Total US hospitalizations (and change) – 249 (+2);**
- **Total US deaths (and change) – 9 (+1)**
- **Total affected states\* – 48**

**Case count by state: state\* – confirmed and probable cases (and change since previous report);**

Alabama – 64; Arkansas – 3; Arizona – 488; California – 553; Colorado – 55; Connecticut – 59; Delaware – 88; Florida – 122; Georgia – 25; Hawaii – 30 (+4); Idaho – 8; Illinois – 794; Indiana – 105; Iowa – 71; Kansas – 34; Kentucky\*\* - 20; Louisiana – 73; Maine – 9; Maryland – 39; Massachusetts – 175; Michigan – 171; Minnesota – 39; Mississippi – 5; Missouri – 20; Montana – 9; Nebraska – 28; Nevada – 33; New Hampshire – 22; New Jersey – 22; New Mexico – 68; New York – 284; North Carolina – 12; North Dakota – 5; Ohio – 13; Oklahoma – 43; Oregon – 94; Pennsylvania – 61 (+6); Rhode Island – 8; South Carolina – 36; South Dakota – 4; Tennessee – 86; Texas – 556; Utah – 116 (+44); Vermont – 1; Virginia 23; Washington – 411 (-30); Washington, D.C. – 13; Wisconsin – 766;

\*includes the District of Columbia

\*\*one case is resident of Kentucky but hospitalized in Georgia

**World Health Organization (WHO) – Updated** As of May 21, 2009, 06:00 GMT --

<http://www.who.int/csr/disease/swineflu/en/>

- **Total global laboratory-confirmed human cases reported to WHO by national health authorities (and change since previous report) – 11,034 (+791)**
- **Total countries reporting cases (and change) – 41**
- **Total reported deaths (and change) - 85 (+5)**
- **Confirmed case count by country (and change since previous report):**

Argentina – 1; Australia – 3 (+2); Austria – 1; Belgium – 5; Brazil – 8; Canada – 719 (+223); Chile – 5; China – 8 (+1); Colombia – 12; Costa Rica – 20 (+11); Cuba – 4 (+1); Denmark – 1; Ecuador – 1; El Salvador – 6; Finland – 2; France – 16 (+1); Germany – 14; Greece – 1; Guatemala – 4 (+1); India – 1; Ireland – 1; Israel – 7; Italy – 10 (+1); Japan – 259 (+49); Korea, Republic of – 3; Malaysia – 2; Mexico – 3892 (+244); Netherlands – 3; New Zealand – 9; Norway – 3 (+1); Panama – 69 (+4); Peru – 3; Poland – 2; Portugal – 1; Spain – 111 (+4); Sweden – 3; Switzerland – 1; Thailand – 2; Turkey – 2; United Kingdom – 109 (+7); United States -- 5710 (+241)\*

\* U.S. case counts reported by WHO may lag behind those currently reported by CDC (see above)

### **SECTION 2. CDC: New or updated communications and sites:**

**CDC Key Communication Sites** <http://www.cdc.gov/h1n1flu/>

- **CDC HOTLINES:** *CDC-INFO Contact Center* [800-CDC-INFO (800-232-4636); TTY: (888) 232-6348; 24 Hrs/day; [cdcinfo@cdc.gov](mailto:cdcinfo@cdc.gov)  
CDC detailed information (e.g., case counts, guidances) are updated at approx. 11:00 AM daily at <http://www.cdc.gov/h1n1flu/>.
- CDC new information: <http://www.cdc.gov/h1n1flu/whatsnew.htm>

- CDC: *Morbidity and Mortality Weekly Report (MMWR)* publishes scientific information for health and public health professionals and the public weekly (issued Thursdays) and releases urgent information as dispatches. <http://www.cdc.gov/mmwr/>
  - **New!** On 21 May 2009 CDC published Serum Cross-Reactive Antibody Response to a Novel Influenza A (H1N1) Virus After Vaccination with Seasonal Influenza Vaccine in the MMWR Weekly May 22, 2009 / 58(19);521-524. The results in this report suggest that vaccination with recent (2005--2009) seasonal influenza vaccines is unlikely to provide protection against the novel influenza A (H1N1) virus. The outcome is consistent with the substantial degree of genetic divergence of the novel influenza A (H1N1) virus of swine origin from recent seasonal human H1N1 viruses; A/California/04/09 shares only 72%--73% amino acid identity in the HA1 portion of the hemagglutinin molecule with the seasonal viruses used in this study. For comparison, the amino acid sequence identity in the HA1 portion among seasonal vaccine strains used in this study is 97%--98%.  
[http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5819a1.htm?s\\_cid=mm5819a1\\_e](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm5819a1.htm?s_cid=mm5819a1_e)
- **Updated** CDC H1N1 Flu Press Updates and Media Advisory <http://www.cdc.gov/h1n1flu/press/>
- Images of the novel H1N1 influenza virus (public domain) are available for download at: <http://www.cdc.gov/h1n1flu/images.htm>
- **New!** Social Media Tools for Consumers and Partners, including Widgets (CDC.gov applications that display the featured content directly on your web page), are available at: <http://www.cdc.gov/socialmedia/h1n1/>

### Surveillance

- Novel influenza A (H1N1) activity is now detected through CDC's routine influenza surveillance systems and reported weekly in FluView at <http://www.cdc.gov/flu/weekly/>. [This CDC influenza surveillance summary will be updated weekly on Friday afternoons.](#)
- The fact that novel H1N1 activity is now detected through seasonal surveillance systems is an indication that there are higher levels of influenza-like illness in the United States than is normal for this time of year
- During Week 18 (ending May 9, 2009) 11.9% of outpatient visits were due to influenza-like illness (ILI). This is elevated nationally due to elevated proportions of outpatient visits due to ILI in DHHS Regions IV (9%), IX (11.6%), and X (25%).
- During Week 18 ending May 9, widespread influenza activity was reported by 8 states: Arizona, California, Delaware, Georgia, New Jersey, New Mexico, Texas, and Virginia. An additional 14 states reported regional influenza activity: Alabama, Alaska, Colorado, Connecticut, Florida, Hawaii, Maine, Maryland, Massachusetts, Nevada, New Hampshire, New York, Tennessee, and Utah. Local influenza activity was reported by 15 states and the District of Columbia. The remaining 13 states reported sporadic influenza activity.

### Laboratory

- About half of all influenza viruses being detected in the U.S. are novel H1N1 viruses.
- **Updated** As of 1330 EDT 21 May 2009, 7 additional novel H1N1 sequences had become available on the GenBank website in addition to the 922 that had been submitted between April 27 and May 20, 2009. Of these 929 sequences, 573 (62%) were submitted by CDC. <http://www.ncbi.nlm.nih.gov/genomes/FLU/SwineFlu.html>
- CDC information for laboratories relevant to this response is available at: <http://www.cdc.gov/h1n1flu/lab/>

### Antiviral medications

- Laboratory testing continues to indicate that the novel influenza A (H1N1) viruses that have been detected in humans are resistant to amantadine and rimantadine but remain sensitive to oseltamivir and zanamivir.

### Travel

- On May 15, 2009 The CDC Travel Health Warning recommending against non-essential travel to Mexico, in effect since April 27, 2009, was downgraded to a Travel Health

Precaution for Mexico. <http://www.cdc.gov/travel/content/travel-health-precaution/novel-h1n1-flu-mexico.aspx>

- General information for travelers is now available in Spanish, Chinese, Japanese, and Korean. Information for airline passengers exposed to novel H1N1 influenza is available in French, Arabic, Russian, and Chinese. Both materials are available at <http://www.cdc.gov/travel/content/novel-h1n1-flu.aspx>.

#### Response

- CDC information regarding Emergency Use Authorizations for off label use of antiviral drugs, respirators, and laboratory testing, and links to FDA information on the same topics, is available at: <http://www.cdc.gov/h1n1flu/eua/>
- CDC/NIOSH information about personal protective equipment PPE: <http://www.cdc.gov/niosh/topics/emres/ppe.html>
- **New!** As of 20 May 2009 Information on Novel H1N1 Flu, Novel H1N1 Flu in Humans, Exposures Not Thought to Spread New H1N1 Flu, Prevention & Treatment, Contamination and Cleanup, and Response & Investigation is available in English and Spanish, but also Arabic, French, Russian, and Chinese. <http://www.cdc.gov/h1n1flu/qa.htm>

### **SECTION 3. US Government: New or updated communications and sites:**

Updated or new USG communications are available through [www.PandemicFlu.gov](http://www.PandemicFlu.gov)

- **US Food and Drug Administration (FDA)**
  - **New!** 20 May 2009, Information on FDA Regulated Products, “Drug Treatments for Flu”, is available at: <http://www.fda.gov/oc/opacom/hottopics/H1N1Flu/>
    - Tamiflu and Relenza are the two FDA-approved influenza antiviral drugs that are recommended by CDC for use against the 2009 H1N1 influenza virus. EUAs have been issued for specific uses of these two drugs in the current 2009 H1N1 setting. Uses specific to pediatric patients less than 1 year of age are provided under the EUA for Tamiflu.
- **Department of Defense (DoD)**
  - DoD provides frequent updates on novel H1N1 virus infection surveillance and detection: <http://fhp.osd.mil/aiWatchboard/index.jsp>
    - **New!** 21 May 2009 H1N1 Flu Surveillance and Detection
    - **New!** 21 May 2009 WHO Map of the spread of Influenza A (H1N1): number of laboratory confirmed cases and deaths
    - **New!** 20 May 2009 DoD Novel H1N1 Influenza Summary
- **Department of Homeland Security, National Biosurveillance Integration Center**
  - NBIC continues to monitor the situation and post updates as indicated
  - **Updated** 21 May 2009 Biosurveillance Common Operating Picture (BCOP) - <https://government.hsin.gov/sites/FedOperations/NBIC/default.aspx>
  - **Updated** 21 May 2009 H1N1 Influenza section of the Collaboration area within the NBIC HSIN portal <https://government.hsin.gov/sites/FedOperations/NBIC/H1N1%20Swine%20Influenza/Forms/AllItems.aspx>

### **SECTION 4: WHO Response and Recommendations**

The World Health Organization (WHO) is coordinating reports on the global impact of novel influenza A H1N1 virus infection and developing recommendations. <http://www.who.int/en/>

- 19 May 2009 Recommendations of the Strategic Advisory Group of Experts (SAGE) on Influenza A (H1N1) vaccines (Guidance Document)  
[http://www.who.int/csr/resources/publications/swineflu/tc\\_report\\_2009\\_05\\_14/en/index.html](http://www.who.int/csr/resources/publications/swineflu/tc_report_2009_05_14/en/index.html)
- **Updated** 06:00 GMT 21 May, 2009 Map of laboratory confirmed cases and deaths as reported to WHO: [http://www.who.int/csr/don/h1n1\\_20090521\\_0600.jpg](http://www.who.int/csr/don/h1n1_20090521_0600.jpg)
- The Pan-American Health Organization (PAHO) posts regularly updated regional reports on the PAHO Influenza A H1N1 portal at <http://new.paho.org/hq/>
  - **New!** Information on the 22 May briefing given by Dr. Jon Andrus, PAHO in Washington DC, at 14:00 EDT is available at:  
[http://new.paho.org/hq/index.php?option=com\\_content&task=view&id=1305&Itemid=1](http://new.paho.org/hq/index.php?option=com_content&task=view&id=1305&Itemid=1)

## **SECTION 5. Other international and country-specific information websites**

The European Centres for Disease Prevention and Control (ECDC) posts frequent updates on novel influenza A (H1N1) events in the European Union and globally. <http://ecdc.europa.eu/en/>

- 5/20/2009 4:00:00 PM Personal protective measures for reducing the risk of acquiring or transmitting human influenza
  - In the absence of a specific vaccine, there are a number of personal measures that people may take to reduce their risk of acquiring influenza. The following recommendations are based in part on evidence from studies and in part on judgement based on public health experience.
- 5/20/2009 3:00:00 PM Frequently asked questions on influenza A(H1N1) virus
- **New!** 5/20/2009 2:00:00 PM Information for travelers regarding the new influenza A(H1N1)
- **Updated** 5/20/2009 5:00:00 PM ECDC situation report on Influenza A(H1N1)
  - The ECDC report gave an update of confirmed cases as of 10 May, 17:00 hours CEST. Since the previous report, four new cases were confirmed in the EU and EFTA countries, reaching a total of 280 confirmed cases reported from 17 countries. The table of figures and the maps are updated regularly.

### **Country Ministry of Health or National Health Agency Website**

Information from outside the U.S. is available on the WHO website. More recently updated country-specific information may be available from their respective national ministries of health.

Argentina

<http://www.msal.gov.ar/hm/site/default.asp>

Australia

<http://www.healthemergency.gov.au/internet/healthemergency/publishing.nsf/Content/updates>

Austria

[http://www.bmgfj.gv.at/cms/site/news\\_detail.html?channel=CH0525&doc=CMS1240819590724](http://www.bmgfj.gv.at/cms/site/news_detail.html?channel=CH0525&doc=CMS1240819590724)

Belgium

[https://portal.health.fgov.be/portal/page?\\_pageid=56.13174478&\\_dad=portal&\\_schema=PORTAL&P\\_TEXT=h1n1&P\\_FROM=1&P\\_CALLING\\_SITEID=56&P\\_CALLING\\_PAGEID=512460](https://portal.health.fgov.be/portal/page?_pageid=56.13174478&_dad=portal&_schema=PORTAL&P_TEXT=h1n1&P_FROM=1&P_CALLING_SITEID=56&P_CALLING_PAGEID=512460)

Brazil

[http://portal.saude.gov.br/portal/saude/profissional/area.cfm?id\\_area=1534](http://portal.saude.gov.br/portal/saude/profissional/area.cfm?id_area=1534)

Canada

[http://www.phac-aspc.gc.ca/alert-alerte/swine\\_200904-eng.php](http://www.phac-aspc.gc.ca/alert-alerte/swine_200904-eng.php)

Chile

<http://www.pandemia.cl/>

China

<http://www.moh.gov.cn/publicfiles/business/htmlfiles/mohwsyjbgs/s9987/index.htm>

Colombia

<http://www.minproteccion-social.gov.co/VBeContent/NewsDetail.asp?ID=18554&IDCompany=3>

Costa Rica

[http://www.ministeriodesalud.go.cr/emergencia\\_sanataria.htm](http://www.ministeriodesalud.go.cr/emergencia_sanataria.htm)  
Cuba

<http://www.sld.cu/sitios/influenzaporcina/>  
Denmark

<http://www.sst.dk/Sundhed%20og%20forebyggelse/Ny%20influenza.aspx>  
Ecuador

<http://www.msp.gov.ec/>  
El Salvador

[http://www.mspas.gob.sv/virus\\_gripeA\\_H1N1/conceptos.htm](http://www.mspas.gob.sv/virus_gripeA_H1N1/conceptos.htm)  
Finland

<http://www.stm.fi/en/frontpage>  
Germany

[http://www.bmg.bund.de/clin\\_117/nn\\_1168278/SharedDocs/Standardartikel/DE/AZ/S/Glossarbegriff-Schweinegrippe.html?\\_nn=true](http://www.bmg.bund.de/clin_117/nn_1168278/SharedDocs/Standardartikel/DE/AZ/S/Glossarbegriff-Schweinegrippe.html?_nn=true)  
Greece

<http://www.mohaw.gr/>  
Guatemala

<http://portal.mspas.gob.gt/>  
India

<http://mohfw.nic.in/>  
Ireland

<http://www.dohc.ie/>  
Israel

<http://www.health.gov.il/>  
Italy

<http://www.ministerosalute.it/>  
Japan

<http://www.mhlw.go.jp/bunya/kenkou/kekkaku-kansenshou04/index.html>  
Korea, Republic of

<http://www.mohw.go.kr/front/main.jsp>  
Malaysia

<http://www.moh.gov.my/MohPortal/index.jsp>  
Mexico

<http://www.salud.gob.mx/>  
Netherlands

<http://www.minvws.nl/>  
New Zealand

<http://www.moh.govt.nz/moh.nsf/indexmh/mexican-swine-influenza-update-270409>  
Norway

<http://www.regjeringen.no/en/dep/hod.html?id=421>  
Panama

<http://www.minsa.gob.pa/>  
Peru

<http://www.minsa.gob.pe/portada/Especiales/2009/norteamericana/index.html>  
Poland

<http://www.mz.gov.pl/>  
Portugal

<http://www.min-saude.pt/portal>  
Spain

<http://www.msc.es/en/servCiudadanos/alertas/comunicadosGripePorcina.htm>  
Sweden

<http://www.smi.se/>  
Switzerland

<http://www.bag.admin.ch/influenza/06411/index.html?lang=fr>  
Thailand

<http://eng.moph.go.th/>  
Turkey

<http://www.saglik.gov.tr/TR/Genel/BelgeGoster.aspx?F6E10F8892433CFF404F9755767D76FF8B89614C9154F631>  
United Kingdom

<http://www.hpa.org.uk/web/HPAweb&Page&HPAwebAutoListName/Page/1240732817665?p=1240732817665>