Human infection with avian influenza A (H5) viruses

Human infection with avian influenza A (H5N1) virus

From 8 to 14 April 2016, no new cases of human infection with avian influenza A (H5N1) virus were reported to WHO in the Western Pacific Region.

From February 2003 to 14 April 2016, 238 cases of human infection with avian influenza A (H5N1) virus were reported from four countries within the Western Pacific Region (Table 1). Of these cases, 134 were fatal, resulting in a case fatality rate (CFR) of 56%.

Table 1: Cumulative number laboratory-confirmed human cases (C) and deaths (D) of influenza A (H5N1) virus infection reported to WHO (January 2003 to 4 April 2016), Western Pacific Region.

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</tr>
</thead>
<tbody>
<tr>
<td>Cambodia</td>
<td>10</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>3</td>
<td>3</td>
<td>26</td>
<td>14</td>
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<tr>
<td>China</td>
<td>40</td>
<td>26</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Lao PDR</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Viet Nam</td>
<td>119</td>
<td>59</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Total</td>
<td>171</td>
<td>95</td>
<td>9</td>
<td>9</td>
<td>9</td>
<td>6</td>
<td>30</td>
<td>17</td>
</tr>
</tbody>
</table>

From February 2003 to 4 April 2016, there have been 850 cases of human infection with avian influenza A (H5N1) virus reported from 16 countries worldwide. Of these cases, 449 were fatal, resulting in a CFR of 52.8%.

Human infection with avian influenza A (H5N6) virus

From 8 to 14 April 2016, no new cases of human infection with avian influenza A (H5N6) virus were reported on the Disease Outbreak News. The last case was reported on 23 March 2016. Since May 2014, a total of ten human cases of influenza A (H5N6) have been reported and all cases were reported from China.

Public health risk assessment for human infection with avian influenza A (H5) viruses

Whenever avian influenza viruses are circulating in poultry, sporadic infections and small clusters of human cases are possible in people exposed to infected poultry or contaminated environments, therefore sporadic human cases would not be unexpected.

With the rapid spread and magnitude of avian influenza outbreaks due to existing and new influenza A (H5) viruses in poultry in areas that have not experienced this disease in animals recently, there is a need for increased vigilance in the animal and public health sectors. Community awareness of the potential dangers for human health is essential to prevent infection in humans. Surveillance should be enhanced to detect human infections if they occur and to detect early changes in transmissibility and infectivity of the viruses.

For more information on confirmed cases of human infection with avian influenza A (H5) virus reported to WHO, visit: http://www.who.int/influenza/human_animal_interface/en/

Human infection with avian influenza A (H7N9) virus in China

From 8 to 14 April 2016, no new case of human infection with avian influenza A (H7N9) virus from the Western Pacific Region was reported. The last case was reported on 29 March 2016. http://www.who.int/csr/don/29-march-2016-avian-ah7n9-china/en/
WHO is continuing to assess the epidemiological situation and will conduct further risk assessments with new information. Overall, the public health risk from avian influenza A (H7N9) viruses has not changed.

Further sporadic human cases of avian influenza A (H7N9) infection are expected in affected and possibly neighbouring areas. Should human cases from affected areas travel internationally, their infection may be detected in another country during or after arrival. If this were to occur, community level spread is considered unlikely as the virus does not have the ability to transmit easily among humans.

**Public health risk assessment for avian influenza A (H7N9) viruses**

On 23 February 2015, WHO conducted a public health risk assessment for avian influenza A (H7N9). This assessment found the overall public health risk from avian influenza A (H7N9) viruses has not changed since the previous assessment, published on 2 October 2014. To date, there has been no evidence of sustained human-to-human transmission of avian influenza A (H7N9) virus. Human infections with the A (H7N9) virus are unusual and need to be monitored closely in order to identify changes in the virus and/or its transmission behaviour to humans as it may have a serious public health impact.

*For more information on human infection with avian influenza A (H7N9) virus reported to WHO:*


*For more information on risk assessment for avian influenza A (H7N9) virus:*


**Animal infection with avian influenza**

From 8 to 14 April 2016, there were five new animal outbreaks with avian influenza virus reported in the Western Pacific Region, including, four in Taiwan, China (three HPAI H5N2 and one HPAI H5N8), and one in Vietnam (HPAI H5N1).

**HPAI (H5N2) outbreak in Geese in Taiwan, China**

Three new outbreaks of HPAI (H5N2) infection in breeding Geese were reported in Taiwan, China. The outbreaks occurred in Shuilin and Taixi townships in Yunlin County and in Tiaboa city in Chiayi County. The first outbreak started on 23 March 2016 and the last one started on 1 April 2016. In total, 1148 of 5935 susceptible birds died due to the infection and 4787 were destroyed during this outbreak.


**HPAI (H5N8) outbreak in birds in Taiwan, China**

One new outbreak of HPAI (H5N8) infection in birds was reported in Kaohsiung city in Taiwan, China. The outbreak started on 15 March 2016. A total of 13 of 677 susceptible birds died and 664 were destroyed during the outbreak.


**HPAI (H5N1) outbreak in birds in Nghe An, VietNam**

One new outbreak of HPAI (H5N1) infection in birds was reported in Quyhn Hoa,Nghe An province, VietNam. The outbreak started on 1 April 2016. In total, 50 of the 200 susceptible birds died due to the infection and 150 were destroyed.

For more information on animal infection with avian influenza viruses with potential public health impact, visit:

- OFFLU: http://www.offlu.net/

Latest information on human seasonal influenza

For the latest information on the seasonal influenza situation in the Western Pacific Region, visit:
http://www.wpro.who.int/emerging_diseases/influenza/en/index.html

For latest information on the global seasonal influenza situation, visit:
- Epidemiology: http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance
- Virology: http://www.who.int/influenza/gisrs_laboratory/updates/summaryreport

Other updates

Influenza at the human-animal interface — Summary and assessment as of 4 April 2016

WHO Risk Assessment of human infection with avian influenza A(H7N9) virus
23 February 2015 posted on WHO website
http://www.who.int/influenza/human_animal_interface/influenza_h7n9/RiskAssessment_H7N9_23Feb20115.pdf?ua=1


Antigenic and genetic characteristics of zoonotic influenza viruses and candidate vaccine viruses developed for potential use in human vaccines—25 February 2016
http://www.who.int/influenza/vaccines/virus/characteristics_virus_vaccines/en/

H7N9 situation update (FAO) —29 March 2016