Human infection with avian influenza A(H5) viruses

Human infection with avian influenza A(H5N1) virus
From 2 to 8 October 2015, 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 24 September 2015, 237 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 57%.

Table 1: Cumulative number laboratory-confirmed human cases (C) and deaths (D) of influenza A (H5N1) virus infection reported to WHO (January 2003 to 10 September 2015), Western Pacific Region.

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<tbody>
<tr>
<td>Cambodia</td>
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<td>0</td>
<td>4</td>
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<td>0</td>
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<tr>
<td>China</td>
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<td>13</td>
<td>8</td>
<td>5</td>
<td>3</td>
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<tr>
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<td>0</td>
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<tr>
<td>Viet Nam</td>
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<td>3</td>
<td>29</td>
<td>20</td>
<td>61</td>
<td>19</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>5</td>
<td>6</td>
<td>5</td>
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<tr>
<td>Total</td>
<td>4</td>
<td>4</td>
<td>29</td>
<td>20</td>
<td>73</td>
<td>28</td>
<td>15</td>
<td>10</td>
<td>16</td>
<td>11</td>
<td>9</td>
<td>13</td>
<td>9</td>
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</tr>
</tbody>
</table>

From 2003 to 4th of September 2015, there have been 844 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 53%.

Human infection with avian influenza A (H5N6) virus
From 2 to 8 October 2015, no new cases of human infection with avian influenza A(H5N6) virus were reported to WHO in the Western Pacific Region. Since May 2014, four human cases of influenza A(H5N6) have been reported, globally, all four 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:
Human infection with avian influenza A (H7N9) virus in China

From 2 to 8 October 2015, no new cases of human infection with avian influenza A(H7N9) virus were reported to WHO in the Western Pacific Region. According to media reports from October 4th, on October 2, Shengzhou authorities confirmed one case of H7N9.

WHO is continuing to assess the epidemiological situation and will conduct further risk assessments with any new information. Overall, the public health risk from avian influenza A (H7N9) viruses has not changed. Since the 16 July 2015, no new laboratory-confirmed human cases of avian influenza A(H7N9) virus infection were reported to WHO.


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.

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

For more information on risk assessment on avian influenza A(H7N9) virus, visit:

Animal infection with avian influenza

From 2 to 8 October 2015, in the Western Pacific Region, five outbreaks of avian influenza virus in poultry were reported, one in Viet Nam and four in Taiwan, China.

HPAI H5N6 outbreak in poultry, Viet Nam
An outbreak of HPAI H5N6 infection in poultry was reported in Lao Cai province. The outbreak started on 1 October 2015 with 1,800 cases.

HPAI H5N2 outbreaks in poultry, Taiwan, China
Four new outbreaks of HPAI H5N2 infection in poultry were reported. One outbreak started on 20 August 2015 in Changhua county with 20 cases. Three further outbreaks have started between 5 to 8 September 2015 in Yunlin county; of those was one in Yuanchang township icluding 455 cases and two took place in Dounan township with 20 cases respectively.
For more information on animal infection with avian influenza viruses with potential public health impact, visit:

- World Organization of Animal Health (OIE) web page:
- Food and Agriculture Organization of the UN (FAO) webpage: Avian Influenza:
- OFFLU:
  - http://www.offlu.net/
- EMPRES:

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 Sep 2015**

http://www.who.int/influenza/human_animal_interface/Influenza_Summary_IRA_HA_interface_04_September_2015.pdf?ua=1

**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_23Feb2015.pdf?ua=1

**WHO Recommended composition of influenza virus vaccines for use in the 2016 southern hemisphere influenza season—24 September 2015**


**Antigenic and genetic characteristics of zoonotic influenza viruses and candidate vaccine viruses developed for potential use in human vaccines—24 September 2015**

http://www.who.int/influenza/vaccines/virus/characteristics_virus_vaccines/en/