

### Human infection with avian influenza A (H5) viruses

#### Human infection with avian influenza A (H5N1) virus

From 31 July to 6 August 2015, **no new case** of human infection with an avian influenza A (H5N1) virus was reported in Western Pacific Region.

From February 2003 to 6 August 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 6 August 2015), Western Pacific Region.**

| Country      | 2003     |          | 2004      |           | 2005      |           | 2006      |           | 2007      |           | 2008      |          | 2009      |          | 2010      |          | 2011     |          | 2012     |          | 2013      |           | 2014      |          | 2015     |          | Total      |            |
|--------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|-----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|----------|----------|----------|------------|------------|
|              | C        | D        | C         | D         | C         | D         | C         | D         | C         | D         | C         | D        | C         | D        | C         | D        | C        | D        | C        | D        | C         | D         | C         | D        | C        | D        | C          | D          |
| Cambodia     | 0        | 0        | 0         | 0         | 4         | 4         | 2         | 2         | 1         | 1         | 1         | 0        | 1         | 0        | 1         | 1        | 8        | 8        | 3        | 3        | 26        | 14        | 9         | 4        | 0        | 0        | 56         | 37         |
| China        | 1        | 1        | 0         | 0         | 8         | 5         | 13        | 8         | 5         | 3         | 4         | 4        | 7         | 4        | 2         | 1        | 1        | 1        | 2        | 1        | 2         | 2         | 2         | 0        | 5        | 1        | 52         | 31         |
| Lao PDR      | 0        | 0        | 0         | 0         | 0         | 0         | 0         | 0         | 2         | 2         | 0         | 0        | 0         | 0        | 0         | 0        | 0        | 0        | 0        | 0        | 0         | 0         | 0         | 0        | 0        | 2        | 2          |            |
| Viet Nam     | 3        | 3        | 29        | 20        | 61        | 19        | 0         | 0         | 8         | 5         | 6         | 5        | 5         | 5        | 7         | 2        | 0        | 0        | 4        | 2        | 2         | 1         | 2         | 2        | 0        | 0        | 127        | 64         |
| <b>Total</b> | <b>4</b> | <b>4</b> | <b>29</b> | <b>20</b> | <b>73</b> | <b>28</b> | <b>15</b> | <b>10</b> | <b>16</b> | <b>11</b> | <b>11</b> | <b>9</b> | <b>13</b> | <b>9</b> | <b>10</b> | <b>4</b> | <b>9</b> | <b>9</b> | <b>9</b> | <b>6</b> | <b>30</b> | <b>17</b> | <b>13</b> | <b>6</b> | <b>5</b> | <b>1</b> | <b>237</b> | <b>134</b> |

From 2003 to 17 July 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 31 July to 6 August 2015, **no new case** of human infection with an avian influenza A (H5N6) virus was reported in Western Pacific Region. The last case was from Diqing, Yunnan Province who passed away on 10 July and was reported from China to WHO on 11 July 2015. Since May 2014, four human cases of influenza A (H5N6) have been reported, globally. All four cases were reported from China and the most recent two cases were from Yunnan Province.

#### 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 are 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/](http://www.who.int/influenza/human_animal_interface/en/)

*For more information on risk assessment on influenza at the Human-Animal interface, visit:*

[http://www.who.int/entity/influenza/human\\_animal\\_interface/Influenza\\_Summary\\_IRA\\_HA\\_interface\\_23\\_June\\_2015.pdf?ua=1](http://www.who.int/entity/influenza/human_animal_interface/Influenza_Summary_IRA_HA_interface_23_June_2015.pdf?ua=1)

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

From 31 July to 6 August 2015, **no new case** of human infection with an avian influenza A (H7N9) virus was reported in Western Pacific Region.

WHO is assessing the epidemiological situation and conducting further risk assessment based on the latest information. Overall, the public health risk from avian influenza A (H7N9) viruses has not changed. Comparing with previous two months, the infection case number is decreasing and no new infected province was reported. 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

<http://www.who.int/csr/don/15-june-2015-avian-influenza-china/en/>

### 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:*

[http://www.who.int/influenza/human\\_animal\\_interface/influenza\\_h7n9/en/](http://www.who.int/influenza/human_animal_interface/influenza_h7n9/en/)

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

[http://www.who.int/influenza/human\\_animal\\_interface/influenza\\_h7n9/RiskAssessment\\_H7N9\\_23Feb20115.pdf](http://www.who.int/influenza/human_animal_interface/influenza_h7n9/RiskAssessment_H7N9_23Feb20115.pdf)

## Animal infection with avian influenza

From 31 July to 6 August 2015, in the Western Pacific Region, animal outbreaks with avian influenza virus was reported in Viet Nam and Taiwan, China.

### H5N6 HPAI outbreak in birds, Viet Nam

One outbreak of H5N6 HPAI infection in wild birds was reported in Quang Ngai province with 1200 cases. The outbreak started on 23 July 2015.

[http://www.oie.int/wahis\\_2/public/wahid.php/Reviewreport/Review?page\\_refer=MapFullEventReport&reportid=18290](http://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?page_refer=MapFullEventReport&reportid=18290)

### H5N2 HPAI outbreaks in poultry, Taiwan, China

Four outbreaks of H5N2 HPAI infection in birds were reported in Changhua and Yunlin country. The outbreaks in Changhua County started on 14 and 20 July 2015 with over 20 000 cases in farms. The outbreaks in Yunlin County started on 19 and 21 July 2015 with over 2000 cases occurring in farms.

[http://www.oie.int/wahis\\_2/public/wahid.php/Reviewreport/Review?page\\_refer=MapFullEventReport&reportid=18240](http://www.oie.int/wahis_2/public/wahid.php/Reviewreport/Review?page_refer=MapFullEventReport&reportid=18240)

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

- World Organization of Animal Health (OIE) web page:  
<http://www.oie.int/animal-health-in-the-world/web-portal-on-avian-influenza/> and  
<http://www.oie.int/animal-health-in-the-world/update-on-avian-influenza>
- Food and Agriculture Organization of the UN (FAO) webpage: Avian Influenza:  
<http://www.fao.org/avianflu/en/index.html>
- OFFLU:  
<http://www.offlu.net/>
- EMPRES:  
<http://www.fao.org/foodchain/empres-prevention-and-early-warning/en/>

## 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](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](http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance)
- Virology:  
[http://www.who.int/influenza/gisrs\\_laboratory/updates/summaryreport](http://www.who.int/influenza/gisrs_laboratory/updates/summaryreport)

## Other updates

*Influenza at the human-animal interface — Summary and assessment as of 17 July 2015*

[http://www.who.int/influenza/human\\_animal\\_interface/Influenza\\_Summary\\_IRA\\_HA\\_interface\\_17\\_July\\_2015.pdf](http://www.who.int/influenza/human_animal_interface/Influenza_Summary_IRA_HA_interface_17_July_2015.pdf)

*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](http://www.who.int/influenza/human_animal_interface/influenza_h7n9/RiskAssessment_H7N9_23Feb20115.pdf?ua=1)