Human infection with avian influenza A(H5) viruses

Human infection with avian influenza A(H5N1) virus

Between 26 July to 1 August 2024, no new case of human infection with avian influenza A(H5N1) virus was reported to WHO in the Western Pacific Region.

From 1 January 2003 to 7 June 2024, a total of 256 cases of human infection with avian influenza A(H5N1) virus have been reported from four countries within the Western Pacific Region (Table 1). Of these cases, 141 were fatal, resulting in a case fatality rate (CFR) of 55%. The last cases in the Western Pacific Region were reported from Cambodia. One case had an onset date of 29 June 2024, whilst the other case was asymptomatic.

Table 1: Cumulative number of laboratory-confirmed human cases (C) and deaths (D) of influenza A(H5N1) virus infection reported to WHO, by date of onset (1 January 2003 to 7 June 2024), Western Pacific Region

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<tbody>
<tr>
<td></td>
<td>C</td>
<td>D</td>
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<tr>
<td>Cambodia</td>
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<td>30</td>
<td>0</td>
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<tr>
<td>China</td>
<td>38</td>
<td>25</td>
<td>9</td>
<td>5</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Viet Nam</td>
<td>112</td>
<td>57</td>
<td>15</td>
<td>7</td>
<td>0</td>
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<tr>
<td>Total</td>
<td>161</td>
<td>91</td>
<td>71</td>
<td>42</td>
<td>6</td>
<td>1</td>
<td>1</td>
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NB: This table is updated on a monthly basis following the updates from the Source.

Globally, from 1 January 2003 to 7 June 2024, 893 cases of human infection with avian influenza A(H5N1) virus were reported from 24 countries. Of these 889 cases, 463 were fatal (CFR of 52%) (source).

Human infection with avian influenza A(H5N6) virus

Between 26 July to 1 August 2024, no new case of human infection with avian influenza A(H5N6) virus was reported to WHO in the Western Pacific Region. To date, a total of 93 laboratory-confirmed cases of human infection with influenza A(H5N6) virus have been reported to WHO in the Western Pacific Region since 2014 including 57 deaths1 (CFR 61%). The last case was reported from Anhui Province, China, with an onset date of 17 June 2024.

Human infection with avian influenza A(H5) virus

Between 26 July to 1 August 2024, no new case of human infection with avian influenza A(H5) virus was reported to WHO in the Western Pacific Region. The last case was reported from Viet Nam, with an onset date of 5 October 2022 (one case, no death). This was the first case of avian influenza A(H5) reported from Viet Nam since 2014; NA subtype could not be determined.

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1 The updated aggregate deaths among cases based on outcome (where it is known) was recently shared by China, through the International Health Regulations (2005) mechanism.
Public health risk assessment for human infection with avian influenza A(H5) viruses
Whenever avian influenza viruses are circulating in poultry, there is a risk for sporadic infection and small clusters of human cases due to exposure to infected poultry or contaminated environments. Therefore, sporadic human cases are not unexpected.

The rise in the number of reported human cases of A(H5N6) infection may reflect the continued circulation of the virus in birds, and enhanced surveillance system and diagnostic capacity as a direct outcome of the response to the COVID-19 pandemic. The zoonotic threat remains elevated due to the spread of the viruses among birds. However, the overall pandemic risk associated with A(H5) is considered to not have significantly changed in comparison to previous years. WHO recommends that Member States remain vigilant and consider mitigation steps to reduce human exposure to potentially infected birds to reduce the risk of additional zoonotic infection.

For information on risk assessments on Avian Influenza, see: monthly risk assessment summaries and Assessment of risk associated with highly pathogenic avian influenza A(H5N6) virus.

Human infection with avian influenza A(H3N8) virus
Between 26 July to 1 August 2024, no new case of human infection with avian influenza A(H3N8) virus was reported to WHO in the Western Pacific Region. The last case was reported from China with an onset date of 22 February 2023. To date, a total of three laboratory-confirmed cases of human infection with influenza A(H3N8) virus with one death have been reported to WHO in the Western Pacific Region.

Human infection with avian influenza A(H7N4) virus in China
Between 26 July to 1 August 2024, no new case of human infection with avian influenza A(H7N4) virus was reported to WHO in the Western Pacific Region. To date, only one laboratory-confirmed case of human infection with influenza A(H7N4) virus has been reported to WHO. This case was reported from China on 14 February 2018.

Human infection with avian influenza A(H7N9) virus in China
Between 26 July to 1 August 2024, no new case of human infection with avian influenza A(H7N9) virus was reported to WHO in the Western Pacific Region. To date, a total of 1 568 laboratory-confirmed human infections with avian influenza A(H7N9) virus, including 616 fatal cases (CFR: 39%), have been reported to WHO since early 2013. The last case of human infection with avian influenza A(H7N9) reported to WHO in the Western Pacific Region was in 2019.

Of the 1 568 human infections with avian influenza A(H7N9), 33 have reported mutations in the hemagglutinin gene indicating a change to high pathogenicity in poultry. These 33 cases were from Taiwan, China (one case had a travel history to Guangdong), Guangxi, Guangdong, Hunan, Shaanxi, Hebei, Henan, Fujian, Yunnan, and Inner Mongolia. No increased transmissibility or virulence of the virus within human cases related to the HPAI A(H7N9) virus has been detected.

Human infection with avian influenza A(H9N2) virus
Between 26 July to 1 August 2024, no new case of human infection with avian influenza A(H9N2) virus was reported to WHO in the Western Pacific Region. To date, a total of 102 cases of human infection with avian influenza A(H9N2), including two deaths (both with underlying conditions), have been reported to WHO in the Western Pacific Region since December 2015. Of these, 99 were reported from China, two were
reported from Cambodia, and one was reported from Viet Nam. The last case was reported from Guizhou Province, China, with an onset date on 15 June 2024.

**Human infection with avian influenza A(H10N3) virus**

Between 26 July to 1 August 2024, no new case of human infection with avian influenza A(H10N3) virus was reported to WHO in the Western Pacific Region. To date, three cases of avian influenza A(H10N3) virus have been reported globally. The last case was reported from Yunnan Province, China, with an onset date of 28 February 2024.

Most previously reported human infections with avian influenza viruses were due to exposure to infected poultry or contaminated environments. Since avian influenza viruses, including avian influenza A(H10N3) viruses, continue to be detected in poultry populations, further sporadic human cases could be detected in the future. Currently, available epidemiologic information suggests that the avian influenza A(H10N3) virus has not acquired the ability for sustained human-to-human transmission, thus the likelihood of spread among humans is low.

**Human infection with avian influenza A(H10N5) virus**

Between 26 July to 1 August 2024, no new case of human infection with avian influenza A(H10N5) was reported to WHO in the Western Pacific Region. To date, one case of avian influenza A(H10N5) virus has been reported from Zhejiang Province, China, with an onset date of 30 November 2023.

Avian influenza A(H10) subtype viruses are known to be distributed in domestic and wild bird species worldwide. They are classified as low pathogenic and occasionally infect mammals (e.g., pigs). Human infection with avian influenza A(H10N5) is unusual; however, given the sporadic nature of human infection with H10Nx, this is not an unexpected event. There is no evidence of sustained human-to-human transmission of influenza A(H10Nx). Human infections of avian influenza need to be monitored and assessed for any indications of changes in transmissibility and virulence.

**Animal infection with avian influenza virus**

Between 26 July to 1 August 2024, one new outbreak of avian influenza was reported to the World Organization for Animal Health (WOAH) from the Western Pacific Region.

On 1 August 2024, one outbreak of highly pathogenic avian influenza A(H5N1) was reported among domestic birds (poultry) in Romeas Haek district, Svay Rieng Province, Cambodia. Among 1 185 susceptible birds, 807 were cases and all died. The remaining susceptible birds were killed and disposed (Source).

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

- WOAH web page: [Weekly disease information and Latest report on Avian Influenza](#)
- [Emergency Prevention System for Transboundary Animal and Plant Pests and Diseases (EMPRES)](#)
- [FAO Global Animal Disease Information System (EMPRES-i)](#)
Other updates

- Influenza at the human-animal interface summary and risk assessment from 4 May to 7 June 2024
- Joint FAO/WHO/WOAH preliminary assessment of recent influenza A\(H5N1\) viruses 23 April 2024
- Recommended composition of influenza virus vaccines for use in the 2024-2025 northern hemisphere. February 2024
- Recommended composition of influenza virus vaccines for use in the 2024 southern hemisphere influenza season 29 September 2023
- WHO position paper: Vaccines against influenza 1 June 2022
- Assessment of risk associated with recent influenza A\(H5N1\) clade 2.3.4.4b viruses 21 December 2022
- WHO SAGE Seasonal Influenza Vaccination Recommendations during the COVID-19 Pandemic Interim guidance 20 September 2020