

Avian Influenza Report

Avian Influenza Report is a weekly report produced by the Surveillance Division of the Communicable Disease Branch of the Centre for Health Protection. This report highlights global avian influenza activity in humans and birds.

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Summary

1. Since the previous issue of Avian Influenza Report (AIR), there were no new human cases of avian influenza A(H7N9). Since March 2013 (as of Mar 16, 2024), there were a total of 1568 human cases of avian influenza A(H7N9) reported globally (all were reported in the seven waves between 2013 and September 2019). The latest case was reported on April 5, 2019.
2. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N6). Since 2014 (as of Mar 16, 2024), there were 90 human cases of avian influenza A(H5N6) reported globally and 89 of them occurred in Mainland China. The latest case was reported on January 16, 2024.
3. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N1). From 2014 to 2023, 0 to 145 confirmed human cases of avian influenza A(H5N1) were reported to the World Health Organization (WHO) annually (according to onset date).* The latest case was reported on February 21, 2024.

* Since November 21, 2012, WHO only publishes information on human cases with avian influenza A(H5N1) infection in “[Influenza at human – animal interface: Monthly Risk Assessment Summary](#)”. Only cases of human infection with H5N1 involved in events that are unusual or associated with potential increased risks will be reported in Disease Outbreak News. The latest [report](#) was published in March, 2024.

This week's highlights

(Sources: World Health Organization (WHO), National Health Commission (NHC), Mainland health authorities, Ministry of Agriculture of the People's Republic of China, Centre for Health Protection (CHP) and World Organisation for Animal Health (Founded as OIE))

Table 1. Hong Kong: Confirmed human cases of avian influenza A(H5N1 / H5N6 / H7N9) since previous issue of AIR

	No. of H5 cases (No. of deaths)	No. of H7N9 cases (No. of deaths)	Details
In this reporting period	0(0)	0(0)	-

Table 2. Outside Hong Kong: Confirmed human cases of avian influenza A(H5N1 / H5N6 / H7N9) since previous issue of AIR

Date of report	Country	Province / Region	District / City	Sex	Age	Condition at time of reporting	Subtype of virus
-	-	-	-	-	-	-	-

Table 3. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHC since 2003 (by onset date) §

Year	Cases	Deaths	Case fatality rate
2003	4	4	100%
2004	46	32	69.6%
2005	98	43	43.9%
2006	115	79	68.7%
2007	88	59	67.0%
2008	44	33	75.0%
2009	73	32	43.8%
2010	48	24	50.0%
2011	62	34	54.8%
2012	32	20	62.5%
2013	39	25	64.1%
2014	52	22	42.3%
2015	145	42	29.0%
2016	10	3	30.0%
2017	4	2	50.0%
2018	0	0	0%
2019	1	1	100%
2020	1	0	0%
2021	2	1	50.0%
2022	6	1	16.7%
2023	12	4	33.3%
2024	5	1	20.0%
Overall	887	462	52.1%

§ Further breakdown by countries is available at [WHO](https://www.who.int) website

Table 4. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHC since 2003 (by date of reporting)

Countries /Areas	Cumulative no. of cases (Dec 2003 to Mar 2024)	No. of recent cases (Nov 2023 to Mar 2024)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	67	7
Canada	1	0
Chile	1	0
Mainland China	55 [#]	0
Djibouti	1	0
Ecuador	1	0
Egypt	359	0
India	1	0
Indonesia	200	0
Iraq	3	0
Lao People's Democratic Republic	3	0
Myanmar	1	0
Nepal	1	0
Nigeria	1	0
Pakistan	3	0
Spain	2	0
Thailand	25	0
Turkey	12	0
United Kingdom	5	0
United States of America	1	0
Vietnam	128	0
Overall	887	7

[#] Including two cases from Mainland China detected in Hong Kong

Table 5. Cumulative numbers of confirmed cases of human infection with avian influenza A(H5N6) since 2014 and since January 2024 respectively (by date of reporting)

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (90 cases in total) (as of Mar 16, 2024)	Cumulative no. of cases since Jan 2024 (1 case in total) (as of Mar 16, 2024)
Mainland China	Guangxi Zhuang Autonomous Region	21	0
	Sichuan Province	15	1
	Guangdong Province	14	0
	Hunan Province	14	0
	Chongqing Municipality	5	0
	Jiangsu Province	5	0
	Jiangxi Province	3*	0
	Anhui Province	2	0
	Fujian Province	2	0
	Yunnan Province	2	0

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (90 cases in total) (as of Mar 16, 2024)	Cumulative no. of cases since Jan 2024 (1 case in total) (as of Mar 16, 2024)
	Zhejiang Province	2	0
	Beijing Municipality	1	0
	Guizhou Province	1	0
	Henan Province	1	0
	Hubei Province	1	0
Lao People's Democratic Republic		1	0

* one case was imported from Guangdong Province

Table 6. Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since October 2023 respectively

Confirmed H7N9 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2013 (1568 cases in total) (as of Mar 16, 2024)	Cumulative no. of cases since Oct 2023 (0 case in total) (as of Mar 16, 2024)
Mainland China	Zhejiang Province	310	0
	Guangdong Province	259	0
	Jiangsu Province	252	0
	Fujian Province	108	0
	Anhui Province	99	0
	Hunan Province	95	0
	Shanghai Municipality	57	0
	Jiangxi Province	52	0
	Sichuan Province	38	0
	Beijing Municipality	35	0
	Guangxi Zhuang Autonomous Region	31	0
	Hubei Province	31	0
	Hebei Province	29	0
	Henan Province	28	0
	Shandong Province	28	0
	Guizhou Province	20	0
	Xinjiang Uygur Autonomous Region	14	0
	Chongqing Municipality	9	0
	Yunnan Province	8	0
	Shaanxi Province	7	0
	Gansu Province	6	0
	Liaoning Province	5	0
	Tianjin Municipality	5	0
	Jilin Province	3	0
	Shanxi Province	3	0
	Tibet Autonomous Region	3	0
	Inner Mongolia Autonomous Region	2	0
	Hong Kong		21*
Taiwan		5*	0
Canada		2*	0
Macao		2 [#]	0

Confirmed H7N9 human cases have been reported in the following countries / areas	Cumulative no. of cases since 2013 (1568 cases in total) (as of Mar 16, 2024)	Cumulative no. of cases since Oct 2023 (0 case in total) (as of Mar 16, 2024)
Malaysia	1*	0

* All cases imported from Mainland China

The latest case imported from Mainland China

Table 7. Confirmed human cases of avian influenza A infections other than avian influenza A(H5N1 / H5N6 / H7N9) reported in the past 6 months (as of March 18, 2024)

	Place of occurrence	No. of cases (No. of deaths)	Details
In this reporting period	Mainland China	3(0)	<p>Avian influenza A(H9N2):</p> <ul style="list-style-type: none"> ▪ Guangxi Zhuang Autonomous Region: <ul style="list-style-type: none"> ▫ A three-year-old boy with onset on February 2, 2024. ▪ Jiangxi Province: <ul style="list-style-type: none"> ▫ A 11-year-old boy with onset on February 11, 2024. ▪ Guangdong Province: <ul style="list-style-type: none"> ▫ A three-year-old boy with onset on February 17, 2024.
Previously reported cases (onset/ reported in the past 6 months)	Mainland China	5(1)	<p>Avian influenza A(H9N2):</p> <ul style="list-style-type: none"> ▪ Sichuan Province: <ul style="list-style-type: none"> ▫ A 55-year-old man with onset on October 1, 2023. ▫ A 74-year-old woman with onset on November 5, 2023. ▫ A one-year-old boy with onset on November 14, 2023. ▪ Anhui Province: <ul style="list-style-type: none"> ▫ A six-year-old boy with onset on January 3, 2024. <p>Avian influenza A(H10N5):</p> <ul style="list-style-type: none"> ▪ Zhejiang Province: <ul style="list-style-type: none"> ▫ A 63-year-old woman, with onset on November 30, 2023, was co-infected with influenza A(H3N2).
	Hong Kong Special Administrative Region	1(0)	<p>Avian influenza A(H9N2):</p> <ul style="list-style-type: none"> ▪ A 22-month-old girl with onset on February 15, 2024.

Table 8. Hong Kong: Confirmed reports of avian influenza A(H5) or avian influenza A(H7N9) in poultry / wild birds / environmental samples since 2015

	No. of reports of H5 in poultry / wild birds / environmental samples	No. of reports of H7N9 in poultry / wild birds / environmental samples	Details
In this reporting period	0	0	-
Previously reported cases since 2015 (before this reporting period)	28*	1#	-

- * [Carcass of a peregrine falcon found in Yuen Long on April 9, 2015 \(H5N6\)](#)
[Carcass of an oriental magpie robin found in Sai Kung on April 29, 2015 \(H5N6\)](#)
[Carcass of an oriental magpie robin found in Kwai Chung on November 17, 2015 \(H5N6\)](#)
[Carcass of a great egret found in Wong Tai Sin on December 31, 2015 \(H5N6\).](#)
[Chicken carcass found in Tuen Mun on February 14, 2016 \(H5N6\)](#)
[Chicken carcass found in Tai O on February 18, 2016 \(H5N6\)](#)
[Samples of faecal droppings collected at Mai Po Nature Reserve on November 25, 2016 \(H5N6\)](#)
[A sample of faecal droppings collected at Mai Po Nature Reserve on November 30, 2016 \(H5N6\)](#)
[A dead red-whiskered bulbul collected at Kowloon City on April 7, 2017 \(H5N6\)](#)
[A dead oriental magpie robin found in Tseung Kwan O on December 21, 2017 \(H5N6\)](#)
[A dead black-faced spoonbill found in the Hong Kong Wetland Park in Tin Shui Wai on December 21, 2017 \(H5N6\)](#)
[An environmental swab of a chopping board and skin swabs of a chilled duck sample taken from a fresh provision shop in Wan Chai on January 2 & January 9, 2018 \(H5N6\)](#)
[An oropharyngeal swab from a batch of chilled chicken taken at a fresh provision shop in Mong Kok, reported on January 23, 2018 \(H5N6\)](#)
[A black-headed gull carcass found in Ngau Hom Tsuen, Lau Fau Shan, reported on February 9, 2018 \(H5N6\)](#)
[A dead crested myna found at Kun Lung Wai, Fanling reported on April 9, 2018 \(H5N6\)](#)
[A swab sample taken from a bird cage housing a hill myna at a pet bird shop in Yuen Po Street Bird Garden in Mong Kok on April 7, 2018 \(H5N6\)](#)
[Samples of faecal droppings collected at Mai Po Nature Reserve reported on January 14, 2021 \(H5N8\)](#)
[Carcass of a peregrine falcon found in Wu Kai Sha reported on February 1, 2021 \(H5N8\)](#)
[Carcass of a black-faced spoonbill found in the Hong Kong Wetland Park in Tin Shui Wai reported on December 20, 2021 \(H5N1\)](#)
[Carcass of a Eurasian Curlew found in the Mai Po Nature Reserve reported on January 26, 2022 \(H5N1\)](#)
[Environmental sample collected from Mai Po Nature Reserve reported on November 16, 2022 \(H5N1\)](#)
[Carcass of a black-faced spoonbill found in Mai Po Nature Reserve reported on November 30, 2022 \(H5N1\)](#)
[Black-faced spoonbill carcass found in Hong Kong Wetland Park reported on December 12, 2022 \(H5N1\)](#)
[Environmental sample from Mai Po Nature Reserve reported on December 8, 2023 \(H5N1\)](#)
[Eurasian teal carcass found in the Mai Po Nature Reserve reported on December 21, 2023 \(H5N1\)](#)
[Pin-tailed snipe and Eurasian teal carcasses found in the Hong Kong Wetland Park reported on December 28, 2023 \(H5N1\)](#)
[Eurasian wigeon carcass found in the Hong Kong Wetland Park, reported on January 5, 2024 \(H5N1\)](#)
[Eurasian wigeon sample collected from the Hong Kong Wetland Park, reported on January 5, 2024 \(H5N1\)](#)
- # [A sample of faecal droppings of live poultry taken from a poultry stall in Yan Oi Market in Tuen Mun reported on June 5, 2016 \(H7N9\)](#)

Table 9. Outside Hong Kong: Confirmed avian influenza A(H5) or other highly pathogenic avian influenza in poultry / wild birds / environmental samples reported in this week – number of reports for various subtypes of virus

Subtype of virus	No. of reports
H5	2
H5N1	15
H5N5	2

Subtype of virus	No. of reports
H5N6	1
H7N6	1

Table 10. Outside Hong Kong: Confirmed avian influenza A(H5) or other highly pathogenic avian influenza in poultry / wild birds / environmental samples reported in this week – details of reports

Places of Occurrence	Details	OIE Report Date
Antarctica	Samples from birds in Antarctica were tested positive for highly pathogenic avian influenza A(H5).	March 12, 2024
Mexico	Samples from poultry in Jalisco and Sonora were tested positive for highly pathogenic avian influenza A(H5N1).	March 12, 2024
	Samples from birds in Baja California and Chihuahua were tested positive for highly pathogenic avian influenza A(H5N1).	March 12, 2024
Bulgaria	Samples from poultry in Pazardzhik were tested positive for highly pathogenic avian influenza A(H5N1).	March 13, 2024
Burkina Faso	Samples from poultry in Centre were tested positive for highly pathogenic avian influenza A(H5N1).	March 13, 2024
Germany	Samples from poultry in Schleswig-Holstein were tested positive for highly pathogenic avian influenza A(H5N1).	March 14, 2024
	Samples from birds in Brandenburg, Hamburg and Sachsen were tested positive for highly pathogenic avian influenza A(H5N1).	March 15, 2024
Japan	Samples from birds in Hokkaido and Iwate were tested positive for highly pathogenic avian influenza A(H5N1) and A(H5N5).	March 14, 2024
	Samples from birds in Niigata, Osaka and Ishikawa were tested positive for highly pathogenic avian influenza A(H5N1).	March 14, 2024
	Samples from birds in Aichi were tested positive for highly pathogenic avian influenza A(H5N5).	March 14, 2024
	Samples from poultry in Hiroshima, Kagawa and Yamaguchi were tested positive for highly pathogenic avian influenza A(H5N1).	March 15, 2024
	Samples from poultry in Kagoshima were tested positive	March 15, 2024

Places of Occurrence	Details	OIE Report Date
	for highly pathogenic avian influenza A(H5N6).	
United States of America	Samples from poultry and birds in Minnesota were tested positive for highly pathogenic avian influenza A(H5N1).	March 14, 2024 March 15, 2024
	Samples from birds in Texas, Washington, Alaska, Montana and New York were tested positive for highly pathogenic avian influenza A(H5N1).	March 14, 2024
	Samples from poultry in South Dakota, Iowa, Michigan, California, Maryland, Arkansas, Indiana, Missouri and Massachusetts were tested positive for highly pathogenic avian influenza A(H5N1).	March 15, 2024
Brazil	Samples from birds in Rio de Janeiro and Rio Grande do Sul were tested positive for highly pathogenic avian influenza A(H5N1).	March 15, 2024
Canada	Samples from poultry in Alberta and Ontario were tested positive for highly pathogenic avian influenza A(H5N1).	March 15, 2024
United Kingdom	Samples from birds in Scotland were tested positive for highly pathogenic avian influenza A(H5N5).	March 15, 2024
Sweden	Samples from poultry in Svedala were tested positive for highly pathogenic avian influenza A(H5).	March 17, 2024
	Samples from birds in Kalmar were tested positive for highly pathogenic avian influenza A(H5N1).	March 18, 2024
South Africa	Samples from poultry in North West, Limpopo and Gauteng were tested positive for highly pathogenic avian influenza A(H7N6).	March 18, 2024

For cumulative reports of avian influenza A(H5) or other highly pathogenic avian influenza in poultry / wild birds, please refer to the [OIE](#) website.

Table 11. Countries / areas with documented human infection with avian influenza A(H7N9) or highly pathogenic avian influenza (including infections in humans/birds and relevant environmental samples) in the past 6 months (as of March 18, 2024)

Countries / Areas	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Antarctica	-	-	-	-	H5	12/03/2024*
Austria	-	-	-	-	H5	04/03/2024 (H5N1)
Belgium	-	-	H5	02/01/2024 (H5N1)	H5	29/01/2024 (H5N1) 31/01/2024*
Bolivia	-	-	H5	06/09/2023 (H5N1)	-	-
Bosnia and Herzegovina	-	-	-	-	H5	19/02/2024 (H5N1)
Brazil	-	-	H5	22/12/2023*	H5	15/03/2024 (H5N1)
Bulgaria	-	-	H5	26/01/2024* 13/03/2024 (H5N1)	-	-
Burkina Faso	-	-	H5	13/03/2024 (H5N1)	-	-
Cambodia	H5	21/02/2024 (H5N1)	H5	07/03/2024 (H5N1)	-	-
Canada	-	-	H5	15/03/2024 (H5N1)	H5	05/12/2023* 01/02/2024 (H5N5) 06/03/2024 (H5N1)
Chile	-	-	-	-	H5	26/01/2024 (H5N1)
Mainland China						
Fujian	-	-	-	-	H5	13/12/2023 (H5N1)
Sichuan	H5	25/11/2023 (H5N6)	-	-	-	-
Colombia	-	-	-	-	H5	21/12/2023*
Costa Rica	-	-	-	-	H5	11/01/2024*
Croatia	-	-	H5	05/12/2023 (H5N1)	H5	19/01/2024 (H5N1)
Cyprus	-	-	-	-	H5	19/02/2024 (H5N1)
Czech Republic	-	-	H5	04/03/2024 (H5N1)	H5	04/03/2024 (H5N1)
Denmark	-	-	H5	20/02/2024 (H5N1)	H5	01/03/2024 (H5N1)
Ecuador	-	-	H5	07/03/2024 (H5N1)	H5	22/11/2023 (H5N1)
Egypt	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Falkland Islands	-	-	-	-	H5	08/02/2024 (H5N1)
Faroe Islands	-	-	-	-	H5	05/12/2023 (H5N5)
Finland	-	-	-	-	H5	09/01/2024 (H5N1) 19/01/2024*

Countries / Areas	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
France	-	-	H5	18/01/2024*	H5	06/02/2024* 20/02/2024 (H5N1)
Germany	-	-	H5	14/03/2024 (H5N1)	H5	01/03/2024 (H5N5) 15/03/2024 (H5N1)
Greenland	-	-	-	-	H5	16/11/2023 (H5N5)
Hong Kong Special Administrative Region	-	-	-	-	H5	05/01/2024 (H5N1)
Hungary	-	-	H5	27/02/2024 (H5N1)	H5	29/02/2024 (H5N1)
Iceland	-	-	-	-	H5	21/12/2023 (H5N5)
India	-	-	-	-	H5	24/10/2023 (H5N1)
Indonesia	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Ireland	-	-	-	-	H5	15/09/2023 (H5N1)
Israel	-	-	H5	08/12/2023 (H5N1)	H5	22/02/2024 (H5N1)
Italy	-	-	H5	28/02/2024 (H5N1)	H5	06/03/2024 (H5N1)
Japan	-	-	H5	15/03/2024 (H5N1) 15/03/2024 (H5N6)	H5	11/10/2023* 26/12/2023 (H5N6) 14/03/2024 (H5N1) 14/03/2024 (H5N5)
Kazakhstan	-	-	-	-	H5	03/01/2024*
Korea	-	-	H5	15/01/2024 (H5N1) 19/02/2024 (H5N6)	H5	19/02/2024 (H5N1) 19/02/2024 (H5N6)
Lithuania	-	-	H5	18/12/2023 (H5N1)	H5	13/02/2024 (H5N1)
Mexico	-	-	H5 H7	12/03/2024 (H5N1) 22/02/2024 (H7N3)	H5	12/03/2024 (H5N1)
Moldova	-	-	H5	23/02/2024 (H5N1)	H5	31/01/2024 (H5N1)
Mozambique	-	-	H7	17/10/2023*	-	-
Netherlands	-	-	H5	13/11/2023* 09/01/2024 (H5N1)	H5	09/01/2024 (H5N1)
Nigeria	-	-	H5	05/03/2024 (H5N1)	-	-
Norway	-	-	H5	23/02/2024 (H5N1)	H5	20/02/2024* 20/02/2024 (H5N1) 20/02/2024 (H5N5)

Countries / Areas	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Peru	-	-	H5	19/02/2024*	H5	22/12/2023*
Philippines	-	-	H5	08/02/2024 (H5N1)	-	-
Poland	-	-	H5	11/03/2024 (H5N1)	H5	11/03/2024 (H5N1)
Portugal	-	-	-	-	H5	28/12/2023 (H5N1)
Romania	-	-	H5	04/03/2024 (H5N1)	H5	11/03/2024 (H5N1)
Russia	-	-	H5	16/02/2024 (H5N1)	H5	22/12/2023 (H5N1)
Serbia	-	-	-	-	H5	29/11/2023 (H5N1)
Slovakia	-	-	H5	04/03/2024 (H5N1)	-	-
Slovenia	-	-	-	-	H5	07/03/2024 (H5N1)
South Africa	-	-	H5	20/02/2024*	H5	22/01/2024*
			H7	18/03/2024 (H7N6)	H7	20/02/2024 (H7N6)
South Georgia and the South Sandwich Islands	-	-	-	-	H5	26/01/2024 (H5N1)
Spain	-	-	-	-	H5	08/01/2024 (H5N1)
Sweden	-	-	H5	19/01/2024 (H5N1) 17/03/2024*	H5	07/03/2024* 18/03/2024 (H5N1)
Switzerland	-	-	-	-	H5	01/02/2024 (H5N1)
Taiwan	-	-	H5	20/02/2024 (H5N1)	H5	20/02/2024 (H5N1)
Ukraine	-	-	-	-	H5	01/03/2024 (H5N1)
United Kingdom	-	-	H5	15/02/2024 (H5N1)	H5	23/02/2024 (H5N1) 15/03/2024 (H5N5)
United States of America	-	-	H5	15/03/2024 (H5N1)	H5	09/11/2023* 14/03/2024 (H5N1)
Uruguay	-	-	-	-	H5	27/10/2023*
Venezuela	-	-	-	-	H5	09/10/2023 (H5N1)

Sources: WHO, OIE, NHC and other official websites

* without further subtype information