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 Jan 20, 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 Jan 20, 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 November 25, 2023.

* 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 December, 2023.

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%
Overall	882	461	52.3%

[§] Further breakdown by countries is available at WHO 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 Jan 2024)	No. of recent cases (Sep 2003 to Jan 2024)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	62	4
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	882	4

[#] 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 Jan 20, 2024)	Cumulative no. of cases since Jan 2024 (1 case in total) (as of Jan 20, 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 Jan 20, 2024)	**Cumulative no. of cases since Jan 2024 (1 case in total)** (as of Jan 20, 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 Jan 20, 2024)	**Cumulative no. of cases since Oct 2023 (0 case in total)** (as of Jan 20, 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*	0
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 Jan 20, 2024)	Cumulative no. of cases since Oct 2023 (0 case in total) (as of Jan 20, 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 January 22, 2024)**

	Place of occurrence	No. of cases (No. of deaths)	Details
In this reporting period	-	0(0)	-
Previously reported cases (onset/ reported in the past 6 months)	**Mainland China**	4(0)	**Avian influenza A(H9N2):** ▪ **Sichuan Province:** ▫ A 4-year-old girl with onset on August 7, 2023. ▫ A 55-year-old man with onset on October 1, 2023. ▫ A 74-year-old woman with onset on November 5, 2023. ▫ A 1-year-old boy with onset on November 14, 2023.

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	6
H5N1	27
H5N5	2
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
Costa Rica	Samples from birds in Puntarenas were tested positive for highly pathogenic avian influenza A(H5).	January 11, 2024
Hungary	Samples from poultry in Hajdú-Bihar, Somogy, Jász-Nagykun-Szolnok, Csongrád-Csanád and Komárom-Esztergom were tested positive for highly pathogenic avian influenza A(H5N1).	January 16, 2024 January 17, 2024 January 18, 2024
	Samples from birds in Heves were tested positive for highly pathogenic avian influenza A(H5N1).	January 18, 2024
Poland	Samples from poultry in Lubelskie were tested positive	January 16, 2024

Places of Occurrence	Details	OIE Report Date
	for highly pathogenic avian influenza A(H5N1).	
	Samples from birds in Dolnośląskie were tested positive for highly pathogenic avian influenza A(H5N1).	January 17, 2024
Italy	Samples from birds in Italian Exclusive Economic Zone and Veneto were tested positive for highly pathogenic avian influenza A(H5N1).	January 17, 2024
Moldova	Samples from poultry in Rîşcani, Dubăsari and Soroca were tested positive for highly pathogenic avian influenza A(H5N1).	January 17, 2024
Romania	Samples from birds in Romanian Exclusive Economic Zone, Neamț and Constanța were tested positive for highly pathogenic avian influenza A(H5N1).	January 17, 2024
Sweden	Samples from poultry in Ystad and Sjöbo were tested positive for highly pathogenic avian influenza A(H5N1).	January 17, 2024 January 19, 2024
	Samples from birds in Katrineholm were tested positive for highly pathogenic avian influenza A(H5).	January 19, 2024
	Samples from birds in Eslöv and Svedala were tested positive for highly pathogenic avian influenza A(H5N1).	January 19, 2024
Canada	Samples from poultry in Saskatchewan, Québec, Alberta and British Columbia were tested positive for highly pathogenic avian influenza A(H5N1).	January 18, 2024
France	Samples from poultry in Pays de la Loire and Hauts-de-France were tested positive for highly pathogenic avian influenza A(H5).	January 18, 2024
Norway	Samples from birds in Rogaland were tested positive for highly pathogenic avian influenza A(H5N1).	January 18, 2024
	Samples from birds in Vestland were tested positive for highly pathogenic avian influenza A(H5N5).	January 18, 2024
United States of America	Samples from poultry and birds in California, Minnesota and South Dakota were tested positive for highly pathogenic avian influenza A(H5N1).	January 18, 2024
	Samples from poultry in Kansas, Ohio, Iowa, Wisconsin, Maryland, Arkansas, Pennsylvania, Missouri, Oregon and North Dakota were tested positive for highly pathogenic	January 18, 2024

Places of Occurrence	Details	OIE Report Date
	avian influenza A(H5N1).	
	Samples from birds in Massachusetts and Maine were tested positive for highly pathogenic avian influenza A(H5N1).	January 18, 2024
Croatia	Samples from birds in Brodsko-Posavska were tested positive for highly pathogenic avian influenza A(H5N1).	January 19, 2024
Finland	Samples from birds in Etelä-Suomen aluehallintovirasto were tested positive for highly pathogenic avian influenza A(H5).	January 19, 2024
Germany	Samples from birds in Schleswig-Holstein were tested positive for highly pathogenic avian influenza A(H5N1).	January 19, 2024
Japan	Samples from birds in Hokkaido were tested positive for highly pathogenic avian influenza A(H5N1) and A(H5N5).	January 19, 2024
	Samples from birds in Gunma and Kanagawa were tested positive for highly pathogenic avian influenza A(H5N1).	January 19, 2024
South Georgia and the South Sandwich Islands	Samples from birds in South Georgia and the South Sandwich Islands were tested positive for highly pathogenic avian influenza A(H5N1).	January 19, 2024
Taiwan	Samples from poultry in Tainan City, Chiayi County, Miaoli County and Yunlin County were tested positive for highly pathogenic avian influenza A(H5N1).	January 19, 2024
Ukraine	Samples from birds in Volyn were tested positive for highly pathogenic avian influenza A(H5N1).	January 19, 2024
United Kingdom	Samples from birds in England were tested positive for highly pathogenic avian influenza A(H5N1).	January 19, 2024
South Africa	Samples from poultry in Gauteng and Mpumalanga were tested positive for highly pathogenic avian influenza A(H5) and A(H7N6).	January 22, 2024
	Samples from birds in Gauteng and Western Cape were tested positive for highly pathogenic avian influenza A(H5).	January 22, 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 January 22, 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)
Argentina	-	-	-	-	H5	14/07/2023*
Austria	-	-	-	-	H5	12/01/2024 (H5N1)
Belgium	-	-	H5	02/01/2024 (H5N1)	H5	11/07/2023* 09/01/2024 (H5N1)
Bolivia	-	-	H5	06/09/2023 (H5N1)	-	-
Bulgaria	-	-	H5	27/11/2023*	-	-
Brazil	-	-	H5	22/12/2023*	H5	15/12/2023 (H5N1)
Cambodia	H5	23/11/2023 (H5N1)	H5	12/01/2024 (H5N1)	-	-
Canada	-	-	H5	18/01/2024 (H5N1)	H5	05/12/2023* 05/12/2023 (H5N5) 12/01/2024 (H5N1)
Chile	-	-	H5	06/07/2023 (H5N1)	H5	28/09/2023 (H5N1)
Mainland China						
Chongqing	H5	05/08/2023 (H5N6)	-	-	-	-
Fujian	-	-	-	-	H5	13/12/2023 (H5N1)
Guangxi	H5	03/07/2023 (H5N6)	-	-	-	-
Sichuan	H5	25/11/2023 (H5N6)	-	-	-	-
Tibet	-	-	-	-	H5	03/08/2023 (H5N1)
Colombia	-	-	-	-	H5	21/12/2023*
Costa Rica	-	-	-	-	H5	11/01/2024*
Croatia	-	-	H5	05/12/2023 (H5N1)	H5	19/01/2024 (H5N1)
Czech Republic	-	-	-	-	H5	11/01/2024 (H5N1)
Denmark	-	-	H5	14/12/2023 (H5N1)	H5	09/01/2024 (H5N1)
Ecuador	-	-	H5	26/12/2023 (H5N1)	H5	22/11/2023 (H5N1)
Egypt	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Estonia	-	-	-	-	H5	04/08/2023 (H5N1)
Falkland Islands	-	-	-	-	H5	07/12/2023 (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	10/08/2023 (H5N1) 18/01/2024*	H5	12/01/2024 (H5N1)
Germany	-	-	H5	12/01/2024 (H5N1)	H5	24/11/2023 (H5N5) 19/01/2024 (H5N1)
Greenland	-	-	-	-	H5	16/11/2023 (H5N5)
Hong Kong Special Administrative Region	-	-	-	-	H5	05/01/2024 (H5N1)
Hungary	-	-	H5	18/01/2024 (H5N1)	H5	18/01/2024 (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	08/11/2023 (H5N1)
Italy	-	-	H5	20/12/2023 (H5N1)	H5	17/01/2024 (H5N1)
Japan	-	-	H5	10/01/2024 (H5N1)	H5	11/10/2023* 26/12/2023 (H5N6) 19/01/2024 (H5N1) 19/01/2024 (H5N5)
Kazakhstan	-	-	-	-	H5	03/01/2024*
Korea	-	-	H5	15/01/2024 (H5N1) 15/01/2024 (H5N6)	H5	07/12/2023 (H5N1) 08/01/2024 (H5N6)
Latvia	-	-	-	-	H5	15/08/2023 (H5N1)
Lithuania	-	-	H5	18/12/2023 (H5N1)	H5	10/07/2023 (H5N1)
Mexico	-	-	H5	09/11/2023 (H5N1)	H5	15/12/2023 (H5N1)
			H7	13/11/2023 (H7N3)		
Moldova	-	-	H5	17/01/2024 (H5N1)	H5	04/01/2024 (H5N1)
Mozambique	-	-	H7	17/10/2023*	-	-
Netherlands	-	-	H5	13/11/2023* 09/01/2024 (H5N1)	H5	09/01/2024 (H5N1)
Nigeria	-	-	H5	04/09/2023 (H5N1)	-	-
Norway	-	-	H5	16/10/2023 (H5N1)	H5	09/11/2023* 18/01/2024 (H5N1)

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)
						18/01/2024 (H5N5)
Peru	-	-	H5	11/09/2023*	H5	22/12/2023*
Poland	-	-	H5	16/01/2024 (H5N1)	H5	17/01/2024 (H5N1)
Portugal	-	-	-	-	H5	28/12/2023 (H5N1)
Reunion	-	-	-	-	H5	18/07/2023 (H5N1)
Romania	-	-	H5	26/12/2023 (H5N1)	H5	17/01/2024 (H5N1)
Russia	-	-	H5	16/10/2023 (H5N1)	H5	22/12/2023 (H5N1)
Serbia	-	-	-	-	H5	29/11/2023 (H5N1)
Slovenia	-	-	-	-	H5	24/11/2023 (H5N1)
South Africa	-	-	H5	22/01/2024*	H7	14/12/2023 (H7N6)
			H7	22/01/2024 (H7N6)	H5	22/01/2024*
South Georgia and the South Sandwich Islands	-	-	-	-	H5	19/01/2024 (H5N1)
Spain	-	-	-	-	H5	08/01/2024 (H5N1)
Sweden	-	-	H5	19/01/2024 (H5N1)	H5	19/01/2024* 19/01/2024 (H5N1)
Switzerland	-	-	-	-	H5	05/01/2024 (H5N1)
Taiwan	-	-	H5	19/01/2024 (H5N1)	H5	26/12/2023 (H5N1)
Togo	-	-	H5	04/07/2023 (H5N1)	-	-
Ukraine	-	-	-	-	H5	19/01/2024 (H5N1)
United Kingdom	H5	14/07/2023 (H5N1)	H5	08/12/2023 (H5N1)	H5	24/11/2023 (H5N5) 19/01/2024 (H5N1)
United States of America	-	-	H5	18/01/2024 (H5N1)	H5	09/11/2023* 18/01/2024 (H5N1)
Uruguay	-	-	-	-	H5	27/10/2023*
Venezuela	-	-	-	-	H5	09/10/2023 (H5N1)

. Sources: WHO, OIE, NHC and other official websites

* without further subtype information