

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 Oct 31, 2020), there were a total of 1568 human cases of avian influenza A(H7N9) reported globally (all were reported in the past 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 Oct 31, 2020), there were 24 human cases of avian influenza A(H5N6) reported globally and all occurred in Mainland China. The latest case was reported on August 19, 2019.
3. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N1). From 2011 to 2019, 0 to 145 confirmed human cases of avian influenza A(H5N1) were reported to World Health Organization (WHO) annually (according to onset date).* The latest case was reported on April 30, 2019.

* 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 July, 2020.

This week's highlights

(Sources: WHO, 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 (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	0	0	0%
Overall	861	455	52.8%

§ Further breakdown by countries is available at [WHO](http://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 (December 2003 to November 2020)	No. of recent cases (July to November 2020)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	53 [#]	0
Djibouti	1	0
Egypt	359	0
Indonesia	200	0
Iraq	3	0
Laos	2	0
Myanmar	1	0
Nepal	1	0
Nigeria	1	0
Pakistan	3	0
Thailand	25	0
Turkey	12	0
Vietnam	127	0
Overall	861	0

[#] 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 2020 respectively

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (24 cases in total) (as of Oct 31, 2020)	Cumulative no. of cases since January 2020 (0 case in total) (as of Oct 31, 2020)
Mainland China	Guangdong Province	8	0
	Guangxi Zhuang Autonomous Region	4	0
	Hunan Province	3	0
	Yunnan Province	2	0
	Anhui Province	1	0
	Beijing Municipality	1	0
	Fujian Province	1	0
	Hubei Province	1	0
	Jiangsu Province	1	0
	Sichuan Province	1	0
Jiangxi Province	1*	0	

* Imported case from Guangdong

Table 6. Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since October 2020 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 Oct 31, 2020)	Cumulative no. of cases since October 2020 (0 case in total) (as of Oct 31, 2020)
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
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

	Place of occurrence	No. of cases (No. of deaths)	Details
In this reporting period	Mainland China	1(0)	Avian influenza A(H9N2): <ul style="list-style-type: none"> ▪ Guangdong Province: A 3-year-old girl with onset on October 12, 2020.
Previously reported cases (onset/ reported in the past 6 months)	Mainland China	2(0)	Avian influenza A(H9N2): <ul style="list-style-type: none"> ▪ Fujian Province: A 10-month-old boy with onset on May 4, 2020. ▪ Guangdong Province: A 4-year-old girl with onset on August 3, 2020.

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)	16*	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 2 January & 9 January, 2018 \(H5N6\)](#)
[An oropharyngeal swab from a batch of chilled chicken taken at a fresh provision shop in Mong Kok, reported on 23 January, 2018 \(H5N6\)](#)
[A black-headed gull carcass found in Ngau Hom Tsuen, Lau Fau Shan on February 8, 2018 \(H5N6\)](#)
[A dead crested myna was found at Kun Lung Wai, Fanling tested positive for H5N6 virus on April 9, 2018](#)
[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 7 April, 2018 \(H5N6\)](#)
- # [A sample of faecal droppings of live poultry taken from a poultry stall in Yan Oi Market in Tuen Mun was tested positive for H7N9 virus on June 5, 2016.](#)

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
H5N8	10

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
Israel	Samples from birds in Tel Aviv were tested positive for highly pathogenic avian influenza A(H5N8).	October 26, 2020
	Samples from poultry and birds in Hazafon were tested positive for highly pathogenic avian influenza A(H5N8).	October 26, 2020 October 29, 2020 November 1, 2020
	Samples from poultry in Haifa were tested positive for highly pathogenic avian influenza A(H5N8).	November 1, 2020
Russia	Samples from poultry in Kostromskaya Oblast, Respublika Tatarstan and Rostovskaya Oblast were tested positive for highly pathogenic avian influenza A(H5N8).	October 27, 2020 November 2, 2020
	Samples from birds in Tyumenskaya Oblast were tested positive for highly pathogenic avian influenza A(H5N8).	October 27, 2020
Germany	Samples from birds in Hamburg were tested positive for highly pathogenic avian influenza A(H5N8).	October 30, 2020
Netherlands	Samples from poultry in Gelderland were tested positive for highly pathogenic avian influenza A(H5N8).	October 30, 2020

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 November 2, 2020)

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)
Australia	-	-	H7	25/08/2020 (H7N7)	-	-
Bulgaria	-	-	H5	18/06/2020 (H5N8)	-	-
Egypt	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Germany	-	-	-	-	H5	30/10/2020 (H5N8)
Hungary	-	-	H5	08/06/2020 (H5N8)	-	-
India	-	-	H5	02/06/2020 (H5N1)	H5	03/06/2020 (H5N1)
Indonesia	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Iraq	-	-	H5	19/05/2020 (H5N8)	-	-
Israel	-	-	H5	01/11/2020 (H5N8)	H5	29/10/2020 (H5N8)
Kazakhstan	-	-	H5	05/10/2020*	H5	16/09/2020*
Netherlands	-	-	H5	30/10/2020 (H5N8)	H5	23/10/2020 (H5N8)
Philippines	-	-	H5	22/09/2020 (H5N6)	-	-
Russia	-	-	H5	28/09/2020* 02/11/2020 (H5N8)	H5	03/09/2020* 27/10/2020 (H5N8)
South Africa	-	-	H5	24/07/2020 (H5N8)	-	-
Taiwan	-	-	H5	24/08/2020 (H5N2) 29/09/2020 (H5N5)	-	-
Vietnam	-	-	H5	01/10/2020 (H5N1) 01/10/2020 (H5N6)	-	-

Sources: WHO, OIE, NHC and other official websites

* without further subtype information