

Avian Influenza Report



Avian Influenza Report is a weekly report produced by the Respiratory Disease Office, Centre for Health Protection of the Department of Health. 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 was one confirmed human case of avian influenza A(H7N9) from Jiangsu reported by the National Health and Family Planning Commission (NHFPC). Since March 2013 (as of September 2, 2017), there were a total of 1562 human cases of avian influenza A(H7N9) reported globally. Since October 2016 (as of September 2, 2017), 756 cases have been recorded in Mainland China.
2. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N6). Since 2014 (as of September 2, 2017), 16 human cases of avian influenza A(H5N6) were reported by the NHFPC and all occurred in Mainland China. The latest case was reported on December 1, 2016.
3. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N1). From 2011 to 2016, 10 to 145 confirmed human cases of avian influenza A(H5N1) were reported to the World Health Organization (WHO) annually (according to onset date). In 2017, there have been so far three cases in Egypt. The latest case was reported on May 16, 2017.*

* 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, 2017.

This week's highlights

(Sources: WHO, NHFPC, 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(H5) / avian influenza A(H7N9)

	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 cases of human infection with avian influenza A(H7N9)

New cases in Mainland China since previous issue of AIR

Province / Region / Municipality	City / District / Area	Age (years)	Sex	Clinical condition at time of reporting	Date of report
Jiangsu	Zhenjiang	58	M	Dead	1/9/2017

Table 3. Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since October 2016 respectively

Confirmed H7N9 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2013 (1562 cases in total) (as of September 2, 2017)	Cumulative no. of cases since October 2016 (764 cases in total) (as of September 2, 2017)
Mainland China	Zhejiang Province	310	91
	Guangdong Province	258	63
	Jiangsu Province	252	148
	Fujian Province	108	34
	Anhui Province	99	63
	Hunan Province	94	60
	Shanghai Municipality	57	6
	Jiangxi Province	52	38
	Sichuan Province	38	38
	Beijing Municipality	35	26
	Guangxi Zhuang Autonomous Region	31	28
	Hubei Province	31	29
	Hebei Province	29	25
	Henan Province	28	24
	Shandong Province	28	19
	Guizhou Province	20	18
	Xinjiang Uygur Autonomous Region	13	3
	Chongqing Municipality	9	9
	Shaanxi Province	7	7 [^]
	Yunnan Province	7	7
	Gansu Province	5	5
	Tianjin Municipality	5	3
	Liaoning Province	4	3
	Jilin Province	3	1
Shanxi Province	3	3	
Tibet Autonomous Region	3	3	
Inner Mongolia Autonomous Region	2	2	
Hong Kong	21*	5	
Taiwan	5*	1	
Canada	2*	-	
Macao	2	2 [#]	
Malaysia	1*	-	

[^] The latest two cases imported from Inner Mongolia

* All cases imported from Mainland China

[#] The latest case imported from Mainland China

Table 4. Outside Hong Kong: Confirmed cases of human infection with avian influenza A(H5N6)

	Place of occurrence	No. of cases (No. of deaths)	Province / Region / Municipality	City / District / Area	Age (years)	Sex	Condition at time of reporting	Date of report
New cases	-	0(0)	-	-	-	-	-	-

Table 5. Cumulative number of confirmed cases of human infection with avian influenza A(H5N6) since 2014 and since November 2016 respectively

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (16 cases in total) (as of September 2, 2017)	Cumulative no. of cases since November 2016 (2 cases in total) (as of September 2, 2017)
Mainland China	Guangdong Province	6	-
	Hunan Province	3	1
	Yunnan Province	2	-
	Anhui Province	1	-
	Hubei Province	1	-
	Jiangxi Province	1*	-
	Sichuan Province	1	-
	Guangxi Zhuang Autonomous Region	1	1

* imported case from Guangdong

Table 6. Outside Hong Kong: Confirmed human cases of avian influenza A(H5N1) since previous issue of AIR

	Place of occurrence	No. of cases (No. of deaths)	Details
New cases	-	0(0)	-

For the cumulative no. of human cases by place, please refer to [WHO](#) website.

Table 7. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHFPC since 2003 (by onset date) §

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Overall
Cases	4	46	98	115	88	44	73	48	62	32	39	52	145	10	3	859
Deaths	4	32	43	79	59	33	32	24	34	20	25	22	42	3	1	453
Case fatality rate	100%	69.6%	43.9%	68.7%	67.0%	75.0%	43.8%	50.0%	54.8%	62.5%	64.1%	42.3%	29.0%	30.0%	33.3%	52.7%

§ Further breakdown by countries is available at [WHO](#) website

Table 8. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHFPC since 2003 (by date of reporting)

Country	Cumulative no. of cases (December 2003 to September 2017)	No. of recent cases [^] (June 2017 to September 2017)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	53	0
Djibouti	1	0
Egypt	359	0
Indonesia	199	0
Iraq	3	0
Laos	2	0
Myanmar	1	0
Nigeria	1	0
Pakistan	3	0
Thailand	25	0
Turkey	12	0
Vietnam	127	0
Overall	859	0

[^] Details of recent cases (June 2017 to September 2017) are listed in *Table 9*.

Table 9. Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO (June 2017 to September 2017) (Sources: WHO)

Date of report	Country	Province / Region	District / City	Sex	Age	Outcome at the time of reporting
-	-	-	-	-	-	-

Table 10. Outside Hong Kong: 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	-	0(0)	-
Previously reported cases (onset in the past 6 months)	Mainland China	2(0)	Avian influenza A(H9N2): <ul style="list-style-type: none"> ▫ Beijing Municipality: A 32-year-old man with onset on April 28, 2017. ▫ Guangdong Province: A 2-month-old baby girl with onset on April 28, 2017.

Table 11. Hong Kong: Confirmed reports of avian influenza A(H5) or avian influenza A(H7N9) in poultry / wild birds / environmental samples since 2014

	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 2014	9*	3 [#]	-

- * [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 \(H5N6\)](#)
- # [Samples from a batch of live chickens imported from a registered poultry farm in Shunde District of Foshan in Guangdong were tested positive for H7N9 virus on January 27, 2014.](#)
[Samples from a consignment of live chickens from a registered farm in Huicheng District of Huizhou in Guangdong were tested positive for H7N9 virus on December 30, 2014.](#)
[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 12. 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
H5N1	1
H5N2	1
H5N6	1
H5N8	6

Table 13. 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
Mainland China	Samples from poultry in Guizhou were tested positive for highly pathogenic avian influenza A (H5N6).	August 28, 2017
Vietnam	Samples from poultry in Bac Lieu were tested positive for highly pathogenic avian influenza A (H5N1).	August 28, 2017
Germany	Samples from birds in Sachsen-Anhalt were tested positive for highly pathogenic avian influenza A (H5N8).	August 29, 2017
Switzerland	Samples from birds in Vaud and Valais were tested positive for highly pathogenic avian influenza A (H5N8).	August 30, 2017
South Africa	Samples from poultry and birds in Western Cape Province and North West Province were tested positive for highly pathogenic avian influenza A (H5N8).	August 31, 2017 (2 reports)
Italy	Samples from poultry and birds in Lombardia and Veneto were tested positive for highly pathogenic avian influenza A (H5N8).	August 31, 2017 (2 reports)
Taiwan	Samples from poultry in Yunlin and Chiayi were tested positive for highly pathogenic avian influenza A (H5N2).	August 31, 2017

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 14. 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 recent 6 months (as of September 2, 2017)

Country/ Area	Human cases		Poultry cases / environmental samples		Wild bird cases / others	
	Subtype of virus	Date of last report	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Austria	-	-	H5	06/04/2017 (H5N8)	H5	06/04/2017 (H5N8)
Bangladesh	-	-	H5	11/05/2017 (H5N1)	H5	11/04/2017*
Belgium	-	-	H5	19/06/2017 (H5N8)	H5	12/07/2017 (H5N8)
Bosnia and Herzegovina	-	-	-	-	H5	28/03/2017 (H5N8)
Bulgaria	-	-	H5	05/06/2017 (H5N8)	H5	09/05/2017 (H5N8)
Cameroon	-	-	H5	04/04/2017 (H5N1)	-	-
Croatia	-	-	H5	17/03/2017 (H5N5)	-	-
Czech Republic	-	-	H5	24/03/2017 (H5N8)	-	-
Democratic Republic of the Congo	-	-	H5	19/07/2017 (H5N8)	-	-
Denmark	-	-	-	-	H5	02/05/2017 (H5N8)
Egypt	-	-	Endemic (H5)	Endemic (H5N1) 22/05/2017 (H5N8)	-	-
Finland	-	-	-	-	H5	22/06/2017*
France	-	-	H5	05/07/2017 (H5N8) 28/03/2017 (H5N1)	H5	03/04/2017 (H5N8)
Germany	-	-	H5	31/08/2017 (H5N8)	H5	31/08/2017 (H5N8)
Greece	-	-	H5	24/03/2017 (H5N8) 03/03/2017 (H5N6)	-	-
Hong Kong	H7N9	03/03/2017 ^	-	-	H5	10/04/2017 (H5N6)
Hungary	-	-	H5	26/04/2017 (H5N8)	H5	13/03/2017 (H5N8)
Indonesia	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Iran	-	-	H5	22/04/2017 (H5N1)	-	-
Ireland	-	-	-	-	H5	06/03/2017 (H5N8)
Italy	-	-	H5	31/08/2017 (H5N8)	H5	31/08/2017 (H5N8)
Japan	-	-	H5	23/03/2017 (H5N6)	H5	18/04/2017 (H5N6)
Korea	-	-	H5	04/05/2017 (H5N6) 12/06/2017 (H5N8)	H5	26/06/2017 (H5N8)
Laos	-	-	H5	10/08/2017 (H5N1)	-	-
Lithuania	-	-	-	-	H5	08/04/2017 (H5N8)
Luxembourg	-	-	H5	09/06/2017 (H5N8)	-	-
Mainland China						
Anhui	H7N9	17/06/2017	-	-	-	-
Beijing	H7N9	30/05/2017	-	-	-	-
Chongqing	H7N9	29/05/2017	-	-	-	-
Fujian	H7N9	19/07/2017	H7	13/06/2017 (H7N9)	-	-
Gansu	H7N9	17/04/2017	-	-	-	-
Guangdong	H7N9	23/04/2017	H7	09/05/2017 (H7N9)	-	-
Guangxi	H7N9	06/06/2017	H7	13/06/2017 (H7N9)	-	-
Guizhou	H7N9	23/06/2017	H5	28/08/2017 (H5N6)	-	-
Hebei	H7N9	12/06/2017	H7	24/05/2017 (H7N9)	-	-
Heilongjiang	-	-	H7	23/06/2017 (H7N9)	-	-
Henan	H7N9	31/05/2017	H7	12/05/2017 (H7N9)	-	-
Hubei	H7N9	18/05/2017	H5	15/03/2017 (H5N6)	-	-
Hunan	H7N9	09/08/2017	H7	09/05/2017 (H7N9)	-	-
Inner Mongolia	H7N9	05/06/2017	H7 H5	13/06/2017 (H7N9) 04/08/2017 (H5N1)	-	-
Jiangsu	H7N9	09/08/2017	-	-	-	-
Jiangxi	H7N9	13/03/2017	-	-	-	-
Jilin	H7N9	14/04/2017	-	-	-	-
Liaoning	H7N9	07/04/2017	-	-	-	-
Shaanxi	H7N9	23/05/2017	H7	01/06/2017 (H7N9)	-	-
Shandong	H7N9	03/06/2017	-	-	-	-
Shanxi	H7N9	22/06/2017	-	-	-	-
Sichuan	H7N9	12/06/2017	-	-	-	-
Tianjin	H7N9	12/06/2017	H7	24/05/2017 (H7N9)	-	-
Tibet	H7N9	28/03/2017	-	-	-	-
Xinjiang	H7N9	07/08/2017	-	-	-	-

Country/ Area	Human cases		Poultry cases / environmental samples		Wild bird cases / others	
	Subtype of virus	Date of last report	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Yunnan	H7N9	23/06/2017	-	-	-	-
Zhejiang	H7N9	01/06/2017	-	-	-	-
Malaysia	-	-	H5	27/03/2017 (H5N1)	-	-
Mexico	-	-	H7	04/05/2017 (H7N3)	-	-
Myanmar	-	-	H5	03/08/2017 (H5N1)	-	-
Nepal	-	-	H5	05/03/2017 (H5N1) 10/03/2017 (H5N8)	H5	10/03/2017 (H5N1)
Netherlands	-	-	-	-	H5	01/06/2017 (H5N5) 14/04/2017 (H5N8)
Niger	-	-	H5	13/04/2017 (H5N8)	-	-
Nigeria	-	-	H5	15/06/2017 (H5N1)	-	-
Philippines	-	-	H5	25/08/2017 (H5N6)	-	-
Poland	-	-	H5	24/03/2017 (H5N8)	H5	08/03/2017 (H5N8)
Romania	-	-	H5	12/04/2017 (H5N8)	H5	18/04/2017 (H5N8)
Russia	-	-	H5	08/08/2017 (H5N8)	-	-
Serbia	-	-	H5	01/03/2017 (H5N8)	H5	01/03/2017 (H5N5) 01/03/2017 (H5N8)
Slovakia	-	-	H5	21/04/2017 (H5N8)	H5	28/03/2017 (H5N8)
Slovenia	-	-	-	-	H5	01/03/2017 (H5N5) 31/03/2017 (H5N8)
South Africa	-	-	H5	25/08/2017 (H5N8)	H5	15/08/2017 (H5N8)
Spain	-	-	H5	03/03/2017 (H5N8)	-	-
Sweden	-	-	H5	25/04/2017 (H5N8)	H5	17/05/2017 (H5N8)
Switzerland	-	-	-	-	H5	30/08/2017 (H5N8)
Taiwan	-	-	H5	31/08/2017 (H5N2) 17/03/2017 (H5N6) 11/07/2017 (H5N8)	-	-
Togo	-	-	H5	03/07/2017 (H5N1)	-	-
United Kingdom	-	-	H5	05/06/2017 (H5N8)	H5	07/08/2017 (H5N8)
United States of America	-	-	H7	17/03/2017 (H7N9)	-	-
Vietnam	-	-	H5	28/08/2017 (H5N1) 14/04/2017 (H5N6)	-	-
Zimbabwe	-	-	H5	01/06/2017 (H5N8)	-	-

Sources: WHO, OIE, NHFPC and other official websites ^ imported case from Fujian # imported case from Guangdong * without further subtype information