

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 were 9 new human cases of avian influenza A(H7N9) reported by the National Health and Family Planning Commission (NHFPC) from Sichuan (3 cases), Beijing (1 case), Hebei (1 case), Jiangsu (1 case), Shandong (1 case), Shanxi (1 case) and Zhejiang (1 case). Since March 2013 (as of May 27, 2017), there were a total of 1512 human cases of avian influenza A(H7N9) reported globally. Since October 2016 (as of May 27, 2017), 706 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 May 27, 2017), 16 human cases of avian influenza A(H5N6) were reported globally 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.*

* 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 May, 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
Beijing	Miyun	51	M	Pneumonia	26/05/2017
Shandong	Binzhou	74	M	Severe pneumonia	26/05/2017
Sichuan	Zigong	44	M	Pneumonia	26/05/2017
Jiangsu	Suzhou	36	M	Severe pneumonia	26/05/2017
Shanxi	Xinzhou	56	M	Severe pneumonia	26/05/2017
Sichuan	Zigong	63	M	Severe pneumonia	26/05/2017
Zhejiang	Lishui	71	M	Severe pneumonia	26/05/2017
Sichuan	Meishan	67	M	Severe pneumonia	26/05/2017
Hebei	Cangzhou	71	M	Severe pneumonia	26/05/2017

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 (1512 cases in total) (as of May 27, 2017)	Cumulative no. of cases since October 2016 (714 cases in total) (as of May 27, 2017)
Mainland China	Zhejiang Province	309	90
	Guangdong Province	258	63
	Jiangsu Province	248	144
	Fujian Province	107	33
	Anhui Province	95	59
	Hunan Province	92	58
	Shanghai Municipality	57	6
	Jiangxi Province	52	38
	Sichuan Province	35	35
	Hubei Province	30	28
	Beijing Municipality	29	20
	Guangxi Zhuang Autonomous Region	29	26
	Hebei Province	27	23
	Henan Province	26	22
	Shandong Province	25	16
	Guizhou Province	17	15
	Xinjiang Uygur Autonomous Region	10	-
	Chongqing Municipality	7	7
	Gansu Province	5	5
	Shaanxi Province	5	5
	Liaoning Province	4	3
Tianjin Municipality	4	2	
Jilin Province	3	1	
Tibet Autonomous Region	3	3	
Shanxi Province	2	2	
Yunnan Province	2	2 [@]	
Hong Kong		21*	5
Taiwan		5*	1
Canada		2*	-
Macao		2	2 [#]
Malaysia		1*	-

[@] Cases imported from Jiangxi

* 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 May 27, 2017)	Cumulative no. of cases since November 2016 (2 cases in total) (as of May 27, 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 May 2017)	No. of recent cases [^] (February 2017 to May 2017)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	53	0
Djibouti	1	0
Egypt	359	3
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	3

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

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

Date of report	Country	Province / Region	District / City	Sex	Age	Outcome at the time of reporting
16/03/2017	Egypt	Menia Governorate	-	M	4	Recovered
		Fayoum Governorate	-	M	48	Died
16/05/2017	Egypt	Cairo Governorate	-	M	35	Recovered

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	3(0)	Avian influenza A(H9N2): <ul style="list-style-type: none"> ▫ Guangdong Province: A 7-month-old girl with onset on December 11, 2016. ▫ Gansu Province: An 11-month-old boy with onset on February 6, 2017. ▫ Beijing Municipality: A 32-year-old man with onset on April 28, 2017.
	United States of America	1(0)	Avian influenza A(H7N2): <ul style="list-style-type: none"> ▫ United States of America: A human case reported on January 16, 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
H5	1
H5N8	2
H7N9	1

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
China	Samples from poultry in Hebei and Tianjin were tested positive for highly pathogenic avian influenza A (H7N9).	May 24, 2017
Congo	Samples from poultry in Ituri were tested positive for highly pathogenic avian influenza A (H5).	May 26, 2017
Germany	Samples from birds in Niedersachsen and Nordrhein-Westfalen were tested positive for highly pathogenic avian influenza A (H5N8).	May 26, 2017
Russia	Samples from poultry in Nizhegorodskaya Oblast and Udmurtskaya Respublika were tested positive for highly pathogenic avian influenza A (H5N8).	May 30, 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 May 30, 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)
Algeria	-	-	-	-	H7	02/11/2016 (H7N1)
Austria	-	-	H5	06/04/2017 (H5N8)	H5	06/04/2017 (H5N8)
Bangladesh	-	-	H5	11/04/2017* 11/05/2017 (H5N1)	H5	21/01/2017 (H5N1)
Belgium	-	-	-	-	H5	28/03/2017 (H5N8)
Bosnia and Herzegovina	-	-	H5	13/02/2017*	H5	28/03/2017 (H5N8)
Bulgaria	-	-	H5	24/02/2017 (H5N8)	H5	09/05/2017 (H5N8)
Cambodia	-	-	H5	31/01/2017 (H5N1)	-	-
Cameroon	-	-	H5	04/04/2017 (H5N1) 14/02/2017 (H5N8)	H5	14/02/2017 (H5N8)
Democratic Republic of the Congo	-	-	H5	26/05/2017*	-	-
Croatia	-	-	H5	16/02/2017 (H5N8) 17/03/2017 (H5N5)	H5	24/02/2017 (H5N8) 05/01/2017 (H5N5)
Czech Republic	-	-	H5	24/03/2017 (H5N8)	H5	27/02/2017 (H5N8) 15/02/2017 (H5N5)
Denmark	-	-	H5	21/11/2016 (H5N8)	H5	02/05/2017 (H5N8)
Egypt	-	-	Endemic	Endemic (H5N1) 22/05/2017 (H5N8)	H5	30/11/2016 (H5N8)
Finland	-	-	-	-	H5	28/04/2017 (H5N8)
France	-	-	H5	04/04/2017 (H5N8) 28/03/2017 (H5N1)	H5	03/04/2017 (H5N8)
Germany	-	-	H5	10/05/2017 (H5N8) 09/02/2017 (H5N5)	H5	26/05/2017 (H5N8) 24/01/2017 (H5N5)
Ghana	-	-	H5	23/11/2016 (H5N1)	-	-
Greece	-	-	H5	24/03/2017 (H5N8) 03/03/2017 (H5N6)	H5	16/02/2017 (H5N8) 27/01/2017 (H5N5)
Hong Kong	H7N9	03/03/2017 ^a	-	-	H5	10/04/2017 (H5N6)
Hungary	-	-	H5	26/04/2017 (H5N8)	H5	13/03/2017 (H5N8)
India	-	-	H5	12/01/2017 (H5N8) 22/02/2017 (H5N1)	H5	19/01/2017 (H5N8) 27/12/2016 (H5N1)
Indonesia	-	-	Endemic	Endemic	-	-
Iran	-	-	H5	13/02/2017 (H5N8) 22/04/2017 (H5N1)	H5	18/12/2016 (H5N8)
Ireland	-	-	-	-	H5	06/03/2017 (H5N8)
Israel	-	-	H5	16/02/2017 (H5N8)	H5	16/02/2017 (H5N8)
Italy	-	-	H5	13/04/2017 (H5N8)	H5	13/01/2017 (H5N5) 03/05/2017 (H5N8)
Japan	-	-	H5	23/03/2017 (H5N6)	H5	18/04/2017 (H5N6)
Kazakhstan	-	-	-	-	H5	20/01/2017*
Korea	-	-	H5	04/05/2017 (H5N6) 12/05/2017 (H5N8)	-	-
Kuwait	-	-	H5	22/01/2017 (H5N8)	-	-
Lithuania	-	-	-	-	H5	08/04/2017 (H5N8)
Macau	H7N9	12/01/2017 [#]	H7	13/12/2016 (H7N9)	-	-
Mainland China						
Anhui	H7N9	08/05/2017	-	-	-	-
Beijing	H7N9	13/05/2017	-	-	-	-
Chongqing	H7N9	08/05/2017	-	-	-	-
Fujian	H7N9	01/05/2017	-	-	-	-
Gansu	H7N9	17/04/2017	-	-	-	-
Guangdong	H7N9	23/04/2017	H7	09/05/2017 (H7N9)	-	-
Guangxi	H5N6 H7N9	08/11/2016 29/04/2017	-	-	-	-
Guizhou	H5N6 H7N9	09/11/2016 01/04/2017	-	-	-	-
Hebei	H7N9	24/05/2017	H7	24/05/2017 (H7N9)	-	-
Henan	H7N9	04/05/2017	H7	12/05/2017 (H7N9)	-	-
Hubei	H7N9	06/05/2017	H5	15/03/2017 (H5N6)	H5	18/01/2017 (H5N8)

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)
Hunan	H5N6 H7N9	18/11/2016 08/05/2017	H5 H7	12/01/2017 (H5N6) 09/05/2017 (H7N9)	-	-
Jiangsu	H7N9	12/05/2017	-	-	-	-
Jiangxi	H7N9	13/03/2017	-	-	-	-
Jilin	H7N9	14/04/2017	-	-	-	-
Liaoning	H7N9	07/04/2017	-	-	-	-
Shaanxi	H7N9	02/05/2017	-	-	-	-
Shandong	H7N9	12/05/2017	-	-	-	-
Shanghai	H7N9	21/02/2017	-	-	-	-
Shanxi	H7N9	07/05/2017	-	-	H5	09/02/2017 (H5N8)
Sichuan	H7N9	17/05/2017	H5	28/12/2016 (H5N6)	-	-
Tianjin	H7N9	26/04/2017	H7	24/05/2017 (H7N9)	-	-
Tibet	H7N9	28/03/2017	-	-	-	-
Xinjiang	-	-	H5	28/12/2016 (H5N6)	-	-
Zhejiang	H7N9	21/05/2017	-	-	-	-
Malaysia	-	-	H5	27/03/2017 (H5N1)	-	-
Macedonia	-	-	H5	30/01/2017 (H5N8)	H5	03/02/2017*
Mexico	-	-	H7	04/05/2017 (H7N3)	-	-
Montenegro	-	-	-	-	H5	22/12/2016 (H5N5)
Myanmar	-	-	H5	07/02/2017 (H5N6)	-	-
Nepal	-	-	H5	05/03/2017 (H5N1) 10/03/2017 (H5N8)	H5	10/03/2017 (H5N1)
Netherlands	-	-	H5	28/12/2016 (H5N8)	H5	14/12/2016 (H5N5) 14/04/2017 (H5N8)
Niger	-	-	H5	21/02/2017 (H5N1) 13/04/2017 (H5N8)	-	-
Nigeria	-	-	H5	10/04/2017 (H5N1) 08/02/2017 (H5N8)	H5	17/12/2016 (H5N8)
Poland	-	-	H5	24/03/2017 (H5N8)	H5	08/03/2017 (H5N8) 08/02/2017 (H5N5)
Portugal	-	-	-	-	H5	31/01/2017 (H5N8)
Romania	-	-	H5	12/04/2017 (H5N8)	H5	18/04/2017 (H5N8)
Russia	-	-	H5	30/05/2017 (H5N8)	H5	27/02/2017*
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)
Spain	-	-	H5	03/03/2017 (H5N8)	H5	20/02/2017 (H5N8)
Sweden	-	-	H5	25/04/2017 (H5N8)	H5	17/05/2017 (H5N8)
Switzerland	-	-	-	-	H5	11/01/2017 (H5N8)
Taiwan	H7N9	05/02/2017 [#]	H5	15/05/2017 (H5N2) 17/03/2017 (H5N6) 27/03/2017 (H5N8)	H5	05/02/2017 (H5N6)
Tunisia	-	-	-	-	H5	01/12/2016 (H5N8)
Uganda	-	-	H5	15/01/2017*	-	-
Ukraine	-	-	H5	12/01/2017 (H5N8)	H5	17/02/2017 (H5N8)
United Kingdom	-	-	H5	08/05/2017 (H5N8)	H5	13/03/2017 (H5N8)
United States of America	-	-	H7	17/03/2017 (H7N9)	H5	09/01/2017 (H5N2)
Vietnam	-	-	H5	15/05/2017 (H5N1) 14/04/2017 (H5N6)	-	-

Sources: WHO, OIE, NHFPC and other official websites

[^] imported case from Fujian

[#] imported case from Guangdong

^{*} without further subtype information