Avian Influenza Report

衞生防護中心 Centre for Health Protection
保障市民健康 Protecting Hong Kong's health

__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 6 new human cases of avian influenza A(H7N9) reported by the National Health and Family Planning Commission (NHFPC) from Yunnan (4 cases), Guizhou (1 case) and Shanxi (1 case). Since March 2013 (as of July 1, 2017), there were a total of 1554 human cases of avian influenza A(H7N9) reported globally. Since October 2016 (as of July 1, 2017), 748 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 July 1, 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 June, 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
Yunnan	Wenshan	27	M	Pneumonia	30/06/2017
Yunnan	Wenshan	42	F	Mild	30/06/2017
Yunnan	Wenshan	4	F	Mild	30/06/2017
Yunnan	Wenshan	33	F	Severe pneumonia	30/06/2017
Guizhou	Bijie	45	M	Severe pneumonia	30/06/2017
Shanxi	Datong	72	M	Severe pneumonia	30/06/2017

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 (1554 cases in total)** (as of July 1, 2017)	**Cumulative no. of cases since October 2016 (756 cases in total)** (as of July 1, 2017)
Mainland China	Zhejiang Province	310	91
	Guangdong Province	258	63
	Jiangsu Province	250	146
	Fujian Province	107	33
	Anhui Province	99	63
	Hunan Province	93	59
	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	10	-
	Chongqing Municipality	9	9
	Shaanxi Province	7	7^
	Yunnan Province	6	6
	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 July 1, 2017)	Cumulative no. of cases since November 2016 (2 cases in total) (as of July 1, 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 July 2017)	No. of recent cases^ (April 2017 to July 2017)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	53	0
Djibouti	1	0
Egypt	359	1
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	1

^ Details of recent cases (April 2017 to July 2017) are listed in *Table 9.*

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

Date of report	Country	Province / Region	District / City	Sex	Age	Outcome at the time of reporting
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	**Mainland China**	1(0)	**Avian influenza A(H9N2):** ▫ **Guangdong Province:** A 2-month-old baby girl with onset on April 28, 2017.
Previously reported cases (onset in the past 6 months)	**Mainland China**	2(0)	**Avian influenza A(H9N2):** ▫ **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):** ▫ **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
H5N1	1
H5N2	1
H5N8	3

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
Belgium	Samples from birds in Hainaut were tested positive for highly pathogenic avian influenza A (H5N8).	June 27, 2017
Taiwan	Samples from poultry in Tainan were tested positive for highly pathogenic avian influenza A (H5N8).	June 27, 2017
	Samples from poultry in Tainan, Pingtung and Yunlin were tested positive for highly pathogenic avian influenza A (H5N2).	June 27, 2017
Democratic Republic of the Congo	Samples from poultry in Ituri were tested positive for highly pathogenic avian influenza A (H5N8).	June 30, 2017
Togo	Samples from poultry in Région Maritime were tested positive for highly pathogenic avian influenza A (H5N1).	July 03, 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 July 3, 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	11/04/2017* 11/05/2017 (H5N1)	H5	21/01/2017 (H5N1)
Belgium	-	-	H5	19/06/2017 (H5N8)	H5	27/06/2017 (H5N8)
Bosnia and Herzegovina	-	-	H5	13/02/2017*	H5	28/03/2017 (H5N8)
Bulgaria	-	-	H5	05/06/2017 (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)
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)
Democratic Republic of the Congo	-	-	H5	30/06/2017 (H5N8)	-	-
Denmark	-	-	H5	-	H5	02/05/2017 (H5N8)
Egypt	-	-	Endemic	Endemic (H5N1) 22/05/2017 (H5N8)	-	-
Finland	-	-	-	-	H5	22/06/2017*
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)
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 ^	-	-	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)
Indonesia	-	-	Endemic	Endemic	-	-
Iran	-	-	H5	13/02/2017 (H5N8) 22/04/2017 (H5N1)	H5	-
Ireland	-	-	-	-	H5	06/03/2017 (H5N8)
Israel	-	-	H5	16/02/2017 (H5N8)	H5	16/02/2017 (H5N8)
Italy	-	-	H5	31/05/2017 (H5N8)	H5	13/01/2017 (H5N5) 07/06/2017 (H5N8)
Japan	-	-	H5	23/03/2017 (H5N6)	H5	18/04/2017 (H5N6)
Kazakhstan	-	-	-	-	H5	20/01/2017*
Korea	-	-	H5	04/05/2017 (H5N6) 12/06/2017 (H5N8)	H5	26/06/2017 (H5N8)
Kuwait	-	-	H5	22/01/2017 (H5N8)	-	-
Lithuania	-	-	-	-	H5	08/04/2017 (H5N8)
Luxembourg	-	-	H5	09/06/2017 (H5N8)	-	-
Macau	H7N9	12/01/2017 #	H7	-	-	-
Mainland China						
Anhui	H7N9	17/06/2017	-	-	-	-
Beijing	H7N9	30/05/2017	-	-	-	-
Chongqing	H7N9	29/05/2017	-	-	-	-
Fujian	H7N9	01/05/2017	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	-	-	-	-
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)	H5	18/01/2017 (H5N8)
Hunan	H7N9	01/06/2017	H5 H7	12/01/2017 (H5N6) 09/05/2017 (H7N9)	-	-
Inner Mongolia	H7N9	05/06/2017	H7	13/06/2017 (H7N9)	-	-

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)
Jiangsu	H7N9	27/05/2017	-	-	-	-
Jiangxi	H7N9	13/03/2017	-	-	-	-
Jilin	H7N9	14/04/2017				
Liaoning	H7N9	07/04/2017	-	-	-	-
Shaanxi	H7N9	23/05/2017	H7N9	01/06/2017	-	-
Shandong	H7N9	03/06/2017	-	-	-	-
Shanghai	H7N9	21/02/2017	-	-	-	-
Shanxi	H7N9	22/06/2017	-	-	H5	09/02/2017 (H5N8)
Sichuan	H7N9	12/06/2017	H5	-	-	-
Tianjin	H7N9	12/06/2017	H7	24/05/2017 (H7N9)	-	-
Tibet	H7N9	28/03/2017	-	-	-	-
Yunnan	H7N9	21/06/2017	-	-	-	-
Zhejiang	H7N9	01/06/2017	-	-	-	-
Malaysia	-	-	H5	27/03/2017 (H5N1)	-	-
Macedonia	-	-	H5	30/01/2017 (H5N8)	H5	03/02/2017*
Mexico	-	-	H7	04/05/2017 (H7N3)	-	-
Myanmar	-	-	H5	07/02/2017 (H5N6)	-	-
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	21/02/2017 (H5N1) 13/04/2017 (H5N8)	-	-
Nigeria	-	-	H5	15/06/2017 (H5N1) 08/02/2017 (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	07/06/2017 (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)
South Africa	-	-	H5	26/06/2017 (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	27/06/2017 (H5N2) 17/03/2017 (H5N6) 27/06/2017 (H5N8)	H5	05/02/2017 (H5N6)
Togo	-	-	H5	03/07/2017 (H5N1)	-	-
Uganda	-	-	H5	15/01/2017*	-	-
Ukraine	-	-	H5	12/01/2017 (H5N8)	H5	17/02/2017 (H5N8)
United Kingdom	-	-	H5	05/06/2017 (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)	-	-
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