

# 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 no new human cases of avian influenza A(H7N9). The latest case was reported on September 15, 2017. Since March 2013 (as of October 7, 2017), there were a total of 1564 human cases of avian influenza A(H7N9) reported globally (including 766 cases reported in the fifth wave from October 1, 2016 to September 30, 2017).
2. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N6). Since 2014 (as of October 7, 2017), 16 human cases of avian influenza A(H5N6) were reported by the National Health and Family Planning Commission (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
<b>In this reporting period</b>	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
-	-	-	-	-	-

**Table 3. Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since October 2017 respectively**

Confirmed H7N9 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2013 (1564 cases in total) (as of October 7, 2017)	Cumulative no. of cases since October 2017 (0 cases in total) (as of October 7, 2017)
Mainland China	Zhejiang Province	310	0
	Guangdong Province	258	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	13	0
	Chongqing Municipality	9	0
	Shaanxi Province	7	0
	Yunnan Province	7	0
	Gansu Province	5	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	

^ 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 October 7, 2017)	Cumulative no. of cases since January 2017 (0 cases in total) (as of October 7, 2017)
Mainland China	Guangdong Province	6	-
	Hunan Province	3	-
	Yunnan Province	2	-
	Anhui Province	1	-
	Hubei Province	1	-
	Jiangxi Province	1*	-
	Sichuan Province	1	-
	Guangxi Zhuang Autonomous Region	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 October 2017)	No. of recent cases <sup>^</sup> (July 2017 to October 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

<sup>^</sup> Details of recent cases (July 2017 to October 2017) are listed in *Table 9*.

**Table 9. Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO (July 2017 to October 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
<b>In this reporting period</b>	-	0(0)	-
<b>Previously reported cases (onset in the past 6 months)</b>	<b>Mainland China</b>	3(0)	<b>Avian influenza A(H9N2):</b> <ul style="list-style-type: none"> <li>▫ <b>Beijing Municipality:</b> A 32-year-old man with onset on April 28, 2017.</li> <li>▫ <b>Guangdong Province:</b> A 2-month-old baby girl with onset on April 28, 2017.</li> <li>▫ <b>Hunan Province:</b> A 9-month-old baby boy with onset on September 18, 2017.</li> </ul>

**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
<b>In this reporting period</b>	0	0	-
<b>Previously reported cases since 2014</b>	9*	3 <sup>#</sup>	-

- \* [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
H5N8	4

**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
Italy	Samples from birds in Lombardia were tested positive for highly pathogenic avian influenza A (H5N8).	October 4, 2017
South Africa	Samples from poultry and birds in Western Cape Province, Gauteng and Free State were tested positive for highly pathogenic avian influenza A (H5N8).	October 6, 2017 (2 reports)
Hungary	Samples from birds in Hajdú-Bihar, Komárom-Esztergom, Budapest, Jász-Nagykun-Szolnok, Pest, Veszprém, Győr-Moson-Sopron, Vas and Nógrád were tested positive for highly pathogenic avian influenza A (H5N8).	October 9, 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 October 9, 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)
Bulgaria	-	-	H5	05/06/2017 (H5N8)	H5	09/05/2017 (H5N8)
Cameroon	-	-	H5	04/04/2017 (H5N1)	-	-
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)	H5	03/04/2017 (H5N8)
Germany	-	-	H5	31/08/2017 (H5N8)	H5	31/08/2017 (H5N8)
Hong Kong	-	-	-	-	H5	10/04/2017 (H5N6)
Hungary	-	-	H5	26/04/2017 (H5N8)	H5	09/10/2017 (H5N8)
Indonesia	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Iran	-	-	H5	22/04/2017 (H5N1)	-	-
Italy	-	-	H5	02/10/2017 (H5N8)	H5	04/10/2017 (H5N8)
Japan	-	-	-	-	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	-	-	-	-
Hunan	H7N9	27/08/2017	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	-	-	-	-
Jilin	H7N9	14/04/2017	-	-	-	-
Liaoning	H7N9	03/09/2017	-	-	-	-
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)	-	-
Xinjiang	H7N9	07/08/2017	-	-	-	-
Yunnan	H7N9	23/06/2017	-	-	-	-
Zhejiang	H7N9	01/06/2017	-	-	-	-
Malaysia	-	-	H5	25/09/2017 (H5N1)	-	-
Mexico	-	-	H7	04/05/2017 (H7N3)	-	-
Myanmar	-	-	H5	03/08/2017 (H5N1)	-	-
Netherlands	-	-	-	-	H5	01/06/2017 (H5N5) 14/04/2017 (H5N8)
Niger	-	-	H5	13/04/2017 (H5N8)	-	-
Nigeria	-	-	H5	15/06/2017 (H5N1)	-	-

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)
Philippines	-	-	H5	08/09/2017 (H5N8)	-	-
Romania	-	-	H5	25/08/2017 (H5N6)	H5	18/04/2017 (H5N8)
Russia	-	-	H5	12/04/2017 (H5N8)	-	-
Slovakia	-	-	H5	08/08/2017 (H5N8)	-	-
South Africa	-	-	H5	21/04/2017 (H5N8)	-	-
Sweden	-	-	H5	06/10/2017 (H5N8)	H5	06/10/2017 (H5N8))
Switzerland	-	-	-	25/04/2017 (H5N8)	H5	17/05/2017 (H5N8)
Taiwan	-	-	H5	-	H5	22/09/2017 (H5N8)
Togo	-	-	H5	05/09/2017 (H5N2)	-	-
United Kingdom	-	-	H5	12/09/2017 (H5N8)	-	-
Vietnam	-	-	H5	03/07/2017 (H5N1)	H5	07/08/2017 (H5N8)
Zimbabwe	-	-	H5	05/06/2017 (H5N8)	-	-
				28/08/2017 (H5N1)		
				27/09/2017 (H5N6)		
				01/06/2017 (H5N8)		

Sources: WHO, OIE, NHFPC and other official websites

\* without further subtype information