

# 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), one new human case of avian influenza A(H7N9) from Guangdong was reported by the Health and Family Planning Commission of Guangdong Province. Since March 2013 (as of December 10, 2016), there were a total of 801 human cases of avian influenza A(H7N9) reported globally. Since November 2016 (as of December 10, 2016), three cases have been recorded in Mainland China. The latest case was reported on December 9, 2016.
2. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N6). Since 2014 (as of December 10, 2016), 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. There were no new human cases of avian influenza A(H5N1) reported by the World Health Organization (WHO). From 2011 to 2015, 32 to 145 confirmed human cases of avian influenza A(H5N1) were reported to WHO annually (according to onset date). In 2016, there have been 10 cases in Egypt so far.\*

\* 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 November, 2016.

## This week's highlights

(Sources: WHO, National Health and Family Planning Commission (NHFPC), Mainland health authorities, 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)**

	Place of occurrence	No. of cases	Province / Region / Municipality	City / District / Area	Age (years)	Sex	Condition at time of reporting	Date of report
<b>New cases</b>	Mainland China	1	Guangdong	Meizhou	81	M	-	9/12/2016

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

Confirmed H7N9 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2013 (801 cases in total) (as of December 10, 2016)	Cumulative no. of cases since November 2016 (3 cases in total) (as of December 10, 2016)
Mainland China	Zhejiang Province	220	1
	Guangdong Province	196	1
	Jiangsu Province	105	1
	Fujian Province	74	-
	Shanghai Municipality	51	-
	Anhui Province	36	-
	Hunan Province	34	-
	Jiangxi Province	14	-
	Xinjiang Uygur Autonomous Region	10	-
	Beijing Municipality	9	-
	Shandong Province	9	-
	Hebei Province	4	-
	Henan Province	4	-
	Guangxi Province	3	-
	Guizhou Province	2	-
	Hubei Province	2	-
	Jilin Province	2	-
	Tianjin Municipality	2	-
	Liaoning Province	1	-
Canada		2*	-
Hong Kong		16*	-
Malaysia		1*	-
Taiwan		4*	-

\* All cases 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
<b>New cases</b>	-	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 December 10, 2016)	Cumulative no. of cases since November 2016 (2 case in total) (as of December 10, 2016)
Mainland China	Guangdong	6	-
	Hunan	3	1
	Yunnan	2	-
	Anhui	1	-
	Hubei	1	-
	Jiangxi	1*	-
	Sichuan	1	-
	Guangxi Zhuang Autonomous Region	1	1

\* imported case from Guangdong

**Table 6. Outside Hong Kong: Confirmed human cases of avian influenza A(H5N1)**

	Place of occurrence	No. of cases (No. of deaths)	Details
<b>New cases</b>	-	0(0)	-

For the cumulative no. of human cases by place, please refer to [WHO](http://www.who.int) website.

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

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	Overall
<b>Cases</b>	4	46	98	115	88	44	73	48	62	32	39	52	145	10	856
<b>Deaths</b>	4	32	43	79	59	33	32	24	34	20	25	22	42	3	452
<b>Case fatality rate</b>	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%	52.8%

<sup>§</sup> Further breakdown by countries is available at [WHO](http://www.who.int) website

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

Country	Cumulative no. of cases (December 2003 to December 2016)	No. of recent cases <sup>^</sup> (September 2016 to December 2016)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	53	0
Djibouti	1	0
Egypt	356	2
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	856	2

<sup>^</sup> Details of recent cases (September 2016 to December 2016) are listed in *Table 9*.

**Table 9. Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO (September 2016 to December 2016) (Sources: WHO)**

Date of report	Country	Province / Region	District / City	Sex	Age	Outcome at the time of reporting
3/10/2016	Egypt	Fayoum	-	M	3	Fatal
3/10/2016	Egypt	Giza	-	F	3	Fatal

**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>	5(0)	<b>Avian influenza A(H9N2):</b> □ <b>Guangdong Province:</b> A 4-year-old girl with onset on June 10, 2016; a 3-year-old boy with onset on July 9, 2016; and a 29-year-old woman with onset on August 8, 2016. □ <b>Yunnan Province:</b> A 10-month-old boy with onset on August 7, 2016. □ <b>Jiangxi Province:</b> A 4-year-old girl with onset on August 2, 2016.

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

	<b>No. of reports of H5 in poultry / wild birds</b>	<b>No. of reports of H7N9 in poultry / wild birds</b>	<b>Details</b>
<b>In this reporting period</b>	1	0	A sample of faecal dropping of birds collected on November 30, 2016 at a gei wai near the Tower Bird Hide in Mai Po Nature Reserve was tested positive for H5N6 virus.
<b>Previously reported cases since 2014</b>	7*	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 \(H5N6\)](#)
- # [Samples from a batch of live chickens imported from a registered poultry farm in Shunde District of Foshan City 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), A(H7N9) or other highly pathogenic avian influenza in poultry / wild birds / environmental samples reported in this week – number of reports for various subtypes of virus**

<b>Subtype of virus</b>	<b>No. of reports</b>
H5	1
H5N1	2
H5N2	1
H5N6	1
H5N8	13

**Table 13. Outside Hong Kong: Confirmed avian influenza A(H5), A(H7N9) or other highly pathogenic avian influenza in poultry / wild birds / environmental samples reported in this week – details of reports**

<b>Places of occurrence</b>	<b>Details</b>	<b>OIE Report Date</b>
<b>Japan</b>	Samples from poultry in Niigata and Aomori were tested positive for highly pathogenic avian influenza A (H5N6).	December 5, 2016
<b>France</b>	Samples from poultry and birds in Tarn and Gers were tested positive for highly pathogenic avian influenza A (H5N8).	December 5, December 8 and December 9, 2016
	Samples from birds in Gers were tested positive for low pathogenic avian influenza A (H5N1).	December 9, 2016
<b>Israel</b>	Samples from poultry in Hadarom were tested positive for highly pathogenic avian influenza A (H5N8).	December 5, 2016
<b>Netherlands</b>	Samples from birds in Noord-Holland were tested positive for highly pathogenic avian influenza A (H5N8).	December 5, 2016
<b>Serbia</b>	Samples from birds in Srbija were tested positive for highly pathogenic avian influenza A (H5N8).	December 6, 2016
<b>Sweden</b>	Samples from birds in Gotlands Lan and Skane Lan were tested positive for highly pathogenic avian influenza A (H5N8).	December 6, 2016
<b>Denmark</b>	Samples from birds in East Region and West Region were tested positive for highly pathogenic avian influenza A (H5N8).	December 6, 2016
<b>Hungary</b>	Samples from poultry in Bács-Kiskun, Jász-Nagykun-Szolnok and Csongrád were tested positive for highly pathogenic avian influenza A (H5N8).	December 6 and December 7, 2016
<b>Germany</b>	Samples from poultry in Brandenburg were tested positive for low pathogenic avian influenza A (H5N1).	December 7, 2016
	Samples from poultry in Schleswig-Holstein were tested positive for low pathogenic avian influenza A (H5N2).	December 7, 2016
<b>Switzerland</b>	Samples from birds in Bern and Nidwalden were tested positive for highly pathogenic avian influenza A (H5N8).	December 7, 2016
<b>Russia</b>	Samples from poultry in Astrakhanskaya oblast were tested positive for highly pathogenic avian influenza A (H5).	December 8, 2016
<b>Taiwan</b>	Samples from poultry in Taichung City were tested positive for highly pathogenic avian influenza A (H5N8).	December 8, 2016
<b>Finland</b>	Samples from birds in Lounais-Suomi and Ahvenanmaan Maakunta were tested positive for highly pathogenic avian influenza A (H5N8).	December 9, 2016

For cumulative reports of avian influenza A(H5N1) or A(H7N9) in poultry / wild birds, please refer to the [OIE](#) website.

**Table 14. Countries / areas with documented avian influenza A (H7N9) or highly pathogenic avian influenza (including H5 and other subtypes) cases in the recent 6 months (including infections in humans/birds and relevant environmental samples) (as of December 12, 2016)**

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	11/11/2016 (H5N8)	H5	01/12/2016 (H5N8)
Bhutan	-	-	H5	24/10/2016 (H5N1)	-	-
Cameroon	-	-	H5	14/09/2016 (H5N1)	-	-
Cote D'Ivoire	-	-	H5	03/10/2016 (H5N1)	-	-
Croatia	-	-	-	-	H5	18/11/2016 (H5N8)
Denmark	-	-	H5	21/11/2016 (H5N8)	H5	06/12/2016 (H5N8)
Egypt	H5N1	19/07/2016	Endemic	Endemic	H5	30/11/2016 (H5N8)
Finland	-	-	-	-	H5	09/12/2016 (H5N8)
France	-	-	H5	25/07/2016 (H5N1) 09/08/2016 (H5N2) 09/12/2016 (H5N8)	H5	05/12/2016 (H5N8)
Germany	-	-	H5	30/11/2016 (H5N8)	H5	02/12/2016 (H5N8)
Ghana	-	-	H5	23/11/2016 (H5N1)	-	-
Hong Kong	-	-	H7	05/06/2016 (H7N9)	H5	05/12/2016 (H5N6)
Hungary	-	-	H5	07/12/2016 (H5N8)	H5	04/11/2016 (H5N8)
India	-	-	H5	25/11/2016 (H5N8)	H5	09/11/2016 (H5N8)
Indonesia	-	-	Endemic	Endemic	-	-
Iran	-	-	H5	03/12/2016 (H5N8)	-	-
Iraq	-	-	H5	25/07/2016*	-	-
Israel	-	-	H5	05/12/2016 (H5N8)	-	-
Japan	-	-	H5	05/12/2016 (H5N6)	H5	21/11/2016 (H5N6)
Korea	-	-	H5	07/09/2016 (H5N8) 02/12/2016 (H5N6)	-	-
Laos	-	-	H5	14/10/2016 (H5N1)	-	-
Lebanon	-	-	H5	14/06/2016 (H5N1)	-	-
Macau	-	-	H7	22/06/2016 (H7N9)	-	-
Mainland China						
Beijing	H7N9	03/06/2016	-	-	-	-
Fujian	H7N9	12/08/2016	-	-	-	-
Gansu	-	-	H5	08/10/2016 (H5N6)	-	-
Guangdong	H7N9	05/12/2016	-	-	-	-
Guangxi	H5N6	01/12/2016	-	-	-	-
Guizhou	-	-	H5	31/08/2016 (H5N6)	-	-
Hebei	H7N9	12/08/2016	-	-	-	-
Henan	H7N9	21/07/2016^	-	-	-	-
Hubei	-	-	H5	08/10/2016 (H5N6)	-	-
Hunan	H5N6	28/11/2016	H5	20/06/2016 (H5N6)	-	-
Jiangsu	H7N9	11/11/2016	-	-	-	-
Jiangxi	H7N9	12/08/2016*	-	-	-	-
Liaoning	H7N9	17/06/2016	-	-	-	-
Tianjin	H7N9	15/06/2016	-	-	-	-
Zhejiang	H7N9	11/11/2016	-	-	-	-
Mexico	-	-	H7	01/06/2016 (H7N3)	-	-
Netherlands	-	-	H7 and H5	10/06/2016 (H7N9) 05/12/2016 (H5N8)	H5	05/12/2016 (H5N8)
Niger	-	-	H5	02/06/2016 (H5N1)	-	-
Nigeria	-	-	H5	28/11/2016 (H5N1)	-	-
Poland	-	-	H5	05/12/2016 (H5N8)	H5	18/11/2016 (H5N8)
Romania	-	-	-	-	H5	05/12/2016 (H5N8)
Russia	-	-	H5	08/12/2016*	H5	17/06/2016*
Serbia	-	-	-	-	H5	06/12/2016 (H5N8)
Sweden	-	-	H5	24/11/2016*	H5	06/12/2016 (H5N8)
Switzerland	-	-	-	-	H5	07/12/2016 (H5N8)
Taiwan	-	-	H5	17/10/2016 (H5N2) 08/12/2016 (H5N8)	-	-
Togo	-	-	H5	25/08/2016 (H5N1)	-	-
Tunisia	-	-	-	-	H5	01/12/2016*
Ukraine	-	-	H5	30/11/2016*	-	-
United States of America	-	-	-	-	H5	26/08/2016 (H5N2)

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)
Vietnam	-	-	H5	01/07/2016 (H5N6) 02/10/2016 (H5N1)	-	-

Sources: WHO, OIE, NHFPC and other official websites    ^ exported case to Anhui    % exported cases to Beijing and Hebei    \* without further subtype information