

# 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). Since March 2013 (as of March 17, 2018), there were a total of 1567 human cases of avian influenza A(H7N9) reported globally (including 1564 cases in the past five waves). The latest case was reported on February 12, 2018.
2. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N6). Since 2014 (as of March 17, 2018), there were 19 human cases of avian influenza A(H5N6) reported globally and all occurred in Mainland China. The latest case was reported on January 5, 2018.
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 World Health Organization (WHO) annually (according to onset date). In 2017, there were three cases in Egypt and one case in Indonesia. The latest case was reported on September 27, 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 March, 2018.

## **This week's highlights**

(Sources: WHO, National Health and Family Planning Commission (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 (1567 cases in total) (as of March 17, 2018)	Cumulative no. of cases since October 2017 (3 cases in total) (as of March 17, 2018)
Mainland China	Zhejiang Province	310	0
	Guangdong Province	259	1
	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	14	1
	Chongqing Municipality	9	0
	Yunnan Province	8	1
	Shaanxi 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

\* 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 January 2018 respectively**

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (19 cases in total) (as of March 17, 2018)	Cumulative no. of cases since January 2018 (1 case in total) (as of March 17, 2018)
Mainland China	Guangdong Province	7	-
	Hunan Province	3	-
	Yunnan Province	2	-
	Anhui Province	1	-
	Hubei Province	1	-
	Jiangxi Province	1*	-
	Sichuan Province	1	-
	Guangxi Zhuang Autonomous Region	2	-
	Fujian Province	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) <sup>§</sup>**

	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	4	860
Deaths	4	32	43	79	59	33	32	24	34	20	25	22	42	3	2	454
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%	50.0%	52.8%

<sup>§</sup> 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 March 2018)	No. of recent cases^ (December 2017 to March 2018)
Azerbaijan	8	0
Bangladesh	8	0
Cambodia	56	0
Canada	1	0
Mainland China	53 <sup>#</sup>	0
Djibouti	1	0
Egypt	359	0
Indonesia	200	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	860	0

^ Details of recent cases (December 2017 to March 2018) are listed in *Table 9*

<sup>#</sup> Including two cases from Mainland China detected in Hong Kong

**Table 9. Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO (December 2017 to March 2018) (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>	6(0)	<p><b>Avian influenza A(H9N2):</b></p> <ul style="list-style-type: none"> <li>▫ <b>Hunan Province:</b> A 9-month-old baby boy with onset on September 18, 2017.</li> <li>▫ <b>Hunan Province:</b> A 20-month-old baby girl with onset on November 27, 2017.</li> <li>▫ <b>Anhui Province:</b> A 9-year-old girl with onset on December 29, 2017.</li> <li>▫ <b>Guangdong Province:</b> A 3-year-old girl with onset on January 21, 2018.</li> <li>▫ <b>Beijing Municipality:</b> A 51-year-old female with onset on February 13, 2018.</li> </ul> <p><b>Avian influenza A(H7N4):</b></p> <ul style="list-style-type: none"> <li>▫ <b>Jiangsu Province:</b> A 68-year-old female with onset on December 25, 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 2015**

	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 2015 (before this reporting period)</b>	14 <sup>*</sup>	1 <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 \(H5N6\)](#)  
[A dead oriental magpie robin found in Tseung Kwan O on December 21, 2017 \(H5N6\)](#)  
[A dead black-faced spoonbill found in the Hong Kong Wetland Park in Tin Shui Wai on December 21, 2017 \(H5N6\)](#)  
[An environmental swab of a chopping board and skin swabs of a chilled duck sample taken from a fresh provision shop in Wan Chai on 2 January & 9 January, 2018 \(H5N6\)](#)  
[An oropharyngeal swab from a batch of chilled chicken taken at a fresh provision shop in Mong Kok, reported on 23 January, 2018 \(H5\)](#)  
[A black-headed gull carcass found in Ngau Hom Tsuen, Lau Fau Shan on February 8, 2018 \(H5N6\)](#)
- # [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
H5N3	1
H5N6	8
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**

<b>Places of occurrence</b>	<b>Details</b>	<b>OIE Report Date</b>
South Africa	Samples from poultry and birds in Western Cape Province and Eastern Cape Province were tested positive for highly pathogenic avian influenza A (H5N8).	March 09, 2018 (2 reports)
Pakistan	Samples from birds in Punjab were tested positive for highly pathogenic avian influenza A (H5N8).	March 12, 2018
Taiwan	Samples from poultry in Yunlin County and Pingtung County were tested positive for highly pathogenic avian influenza A (H5N2).	March 12, 2018
Bhutan	Samples from poultry in Samdrup Jongkhar were tested positive for highly pathogenic avian influenza A (H5N1).	March 13, 2018
Sweden	Samples from poultry and birds in Blekinge Lan and Uppsala Lan were tested positive for highly pathogenic avian influenza A (H5N6).	March 14 and March 16, 2018
Netherlands	Samples from poultry in Overijssel were tested positive for highly pathogenic avian influenza A (H5N6).	March 14, 2018
Ireland	Samples from birds in Clare were tested positive for highly pathogenic avian influenza A (H5N6).	March 16, 2018
Korea	Samples from poultry in Chungcheongbuk-do, Gyeonggi-do and Chungcheongnam-do were tested positive for highly pathogenic avian influenza A (H5N6).	March 16 and March 18, 2018 (4 reports)
Italy	Samples from poultry in Lombardia were tested positive for highly pathogenic avian influenza A (H5N8).	March 16, 2018
France	Samples from poultry in Lot-Et-Garonne were tested positive for low pathogenic avian influenza A (H5N3).	March 19, 2018

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 March 19, 2018)**

Country/ Area	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	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)
Afghanistan	-	-	H5	06/02/2018*	H5	06/01/2018*
Bangladesh	-	-	H5	08/01/2018 (H5N1)	H5	26/12/2017 (H5N1)
Bhutan	-	-	H5	13/03/2018 (H5N1)	-	-
Bulgaria	-	-	H5	08/03/2018*	-	-
Cambodia	-	-	H5	04/03/2018 (H5N1)	-	-
Cyprus	-	-	-	-	H5	24/10/2017 (H5N8)
Democratic Republic of the Congo	-	-	H5	03/03/2018 (H5N8)	-	-
Denmark	-	-	-	-	H5	02/03/2018 (H5N6)
Egypt	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Germany	-	-	-	-	H5	08/01/2018 (H5N6) 23/10/2017 (H5N8)
Ghana	-	-	H5	14/02/2018 (H9N2)	-	-
Hungary	-	-	-	-	H5	09/10/2017 (H5N8)
Hong Kong	-	-	H5	23/01/2018*	H5	08/02/2018 (H5N6)
India	-	-	H5	07/03/2018 (H5N1) 15/01/2018 (H5N8)	H5	01/03/2018 (H5N1)
Indonesia	H5N1	01/09/2017	Endemic (H5)	Endemic (H5N1)	-	-
Iran	-	-	-	-	H5	05/02/2018 (H5N6)
Iraq	-	-	H5	11/03/2018 (H5N8)	-	-
Ireland	-	-	-	-	H5	16/03/2018 (H5N6)
Israel	-	-	-	-	H5	07/02/2018 (H5N8)
Italy	-	-	H5	16/03/2018 (H5N8)	H5	10/11/2017 (H5N8)
Japan	-	-	H5	12/01/2018 (H5N6)	H5	09/03/2018 (H5N6)
Korea	-	-	H5	18/03/2018 (H5N6) 20/11/2017 (H5N8)	-	-
Mainland China						
Anhui	-	-	H5	23/10/2017 (H5N6)	-	-
Fujian	H5N6	19/12/2017	-	-	-	-
Guangdong	H7N9	03/02/2018	-	-	-	-
Guangxi	H5N6	07/11/2017	H5	05/03/2018 (H5N6)	-	-
Jiangsu	H7N4	25/12/2017	-	-	-	-
Liaoning	H7N9	03/09/2017	-	-	-	-
Shaanxi	-	-	H7	05/03/2018 (H7N9)	-	-
Xinjiang	H7N9	03/01/2018	-	-	-	-
Yunnan	H7N9	21/11/2017	-	-	-	-
Malaysia	-	-	H5	25/09/2017 (H5N1)	-	-
Mexico	-	-	H7	09/03/2018 (H7N3)	-	-
Netherlands	-	-	H5	14/03/2018 (H5N6)	H5	27/02/2018 (H5N6)
Nigeria	-	-	H5	02/02/2018 (H5N8)	-	-
Pakistan	-	-	-	-	H5	12/03/2018 (H5N8)
Philippines	-	-	H5	21/12/2017 (H5N6)	-	-
Russia	-	-	H5	29/12/2017 (H5N2) 23/10/2017 (H5N8)	H5	23/11/2017 (H5N8)
Saudi Arabia	-	-	H5	01/03/2018 (H5N8)	-	-
South Africa	-	-	H5	09/03/2018 (H5N8)	H5	09/03/2018 (H5N8)
Sweden	-	-	H5	16/03/2018 (H5N6)-	H5	14/03/2018 (H5N6)
Switzerland	-	-	-	-	H5	29/12/2017 (H5N6) 22/09/2017 (H5N8)
Taiwan	-	-	H5	12/03/2018 (H5N2) 06/02/2018 (H5N8)	H5	05/12/2017 (H5N6)
United Kingdom	-	-	-	-	H5	01/03/2018 (H5N6)
Vietnam	-	-	H5	24/02/2018 (H5N6)	-	-

Sources: WHO, OIE, NHFPC and other official websites

\* without further subtype information