

# 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 February 2, 2019), there were a total of 1567 human cases of avian influenza A(H7N9) reported globally (in the past six 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 February 2, 2019), there were 23 human cases of avian influenza A(H5N6) reported globally and all occurred in Mainland China. The latest case was reported on November 23, 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 January, 2019.

## This week's highlights

(Sources: WHO, National Health Commission (NHC), 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(H5N1 / H5N6 / H7N9) since previous issue of AIR**

	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 human cases of avian influenza A(H5N1 / H5N6 / H7N9) since previous issue of AIR**

Date of report	Country	Province / Region	District / City	Sex	Age	Condition at time of reporting	Subtype of virus
-	-	-	-	-	-	-	-

**Table 3. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHC since 2003 (by onset date) <sup>§</sup>**

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Overall
<b>Cases</b>	4	46	98	115	88	44	73	48	62	32	39	52	145	10	4	0	0	860
<b>Deaths</b>	4	32	43	79	59	33	32	24	34	20	25	22	42	3	2	0	0	454
<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%	50.0%	0%	0%	52.8%

<sup>§</sup> Further breakdown by countries is available at [WHO](#) website

**Table 4. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHC since 2003 (by date of reporting)**

Country	Cumulative no. of cases (December 2003 to February 2019)	No. of recent cases (November 2018 to February 2019)
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

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

**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 (23 cases in total) (as of February 2, 2019)	Cumulative no. of cases since January 2018 (5 cases in total) (as of February 2, 2019)
Mainland China	Guangdong Province	8	1
	Guangxi Zhuang Autonomous Region	4	2
	Hunan Province	3	-
	Yunnan Province	2	-
	Anhui Province	1	-
	Fujian Province	1	1
	Hubei Province	1	-
	Jiangsu Province	1	1
	Sichuan Province	1	-
	Jiangxi Province	1*	-

\* imported case from Guangdong

**Table 6. Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since October 2018 respectively**

<b>Confirmed H7N9 human cases have been reported in the following countries / areas</b>		<b>Cumulative no. of cases since 2013 (1567 cases in total) (as of February 2, 2019)</b>	<b>Cumulative no. of cases since October 2018 (0 cases in total) (as of February 2, 2019)</b>
Mainland China	Zhejiang Province	310	0
	Guangdong Province	259	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	14	0
	Chongqing Municipality	9	0
	Yunnan Province	8	0
	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 <sup>#</sup>	0	
Malaysia	1*	0	

\* All cases imported from Mainland China

<sup>#</sup> The latest case imported from Mainland China

**Table 7. 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)	<b>Avian influenza A(H9N2):</b> ▫ <b>Hunan Province:</b> A 2-year-old boy with onset on November 27, 2018.
Previously reported cases (onset in the past 6 months)	Mainland China	3(0)	<b>Avian influenza A(H9N2):</b> ▫ <b>Guangdong Province:</b> A 10-month-old baby girl with onset on October 16, 2018. A 32-year-old female with onset on December 19, 2018. ▫ <b>Guangxi Zhuang Autonomous Region:</b> A 3-year-old boy with onset on October 10, 2018.

**Table 8. 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
In this reporting period	0	0	-
Previously reported cases since 2015 (before this reporting period)	16*	1#	-

- \* [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 \(H5N6\)](#)  
[A black-headed gull carcass found in Ngau Hom Tsuen, Lau Fau Shan on February 8, 2018 \(H5N6\)](#)  
[A dead crested myna was found at Kun Lung Wai, Fanling tested positive for H5N6 virus on April 9, 2018](#)  
[A swab sample taken from a bird cage housing a hill myna at a pet bird shop in Yuen Po Street Bird Garden in Mong Kok on 7 April, 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 9. 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
H5N2	1
H5N8	4

**Table 10. 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
Iran	Samples from poultry in West Azarbayejan, Zanzan and Gilan were tested positive for highly pathogenic avian influenza A (H5N8).	January 25, 2019; February 2 and February 5, 2019
Taiwan	Samples from poultry in Pingtung County and Hsinchu County were tested positive for highly pathogenic avian influenza A (H5N2).	January 28, 2019
Kuwait	Samples from poultry in Al Farwaniyah were tested positive for highly pathogenic avian influenza A (H5N8).	February 6, 2019

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 11. 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 February 7, 2019)**

Country/ Area	Human cases		Poultry cases / other related samples		Wild bird cases / other related samples	
	Subtype of virus	Date of last report / onset of last reported case	Subtype of virus	Date of last report (Subtype in this report)	Subtype of virus	Date of last report (Subtype in this report)
Bulgaria	-	-	H5	23/12/2018 (H5N8)	-	-
Cambodia	-	-	H5	31/08/2018 (H5N1)	-	-
Denmark	-	-	-	-	H5	21/01/2019 (H5N6)
Egypt	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Germany	-	-	H5	04/09/2018 (H5N6)	-	-
India	-	-	H5	22/01/2019 (H5N1)	H5	22/01/2019 (H5N1)
Indonesia	-	-	Endemic (H5)	Endemic (H5N1)	-	-
Iran	-	-	H5	05/02/2019 (H5N8)	-	-
Kuwait	-	-	H5	06/02/2019 (H5N8)	-	-
Laos	-	-	H5	22/10/2018 (H5N1)	-	-
Mainland China						
Guangdong	H5	25/09/2018 (H5N6)	-	-	-	-
Guangxi	H5	18/10/2018 (H5N6)	-	-	-	-
Guizhou	-	-	H5	29/09/2018 (H5N6)	-	-
Hunan	-	-	H5	10/10/2018 (H5N6)	-	-
Hubei	-	-	H5	24/10/2018 (H5N6)	-	-
Jiangsu	H5	29/10/2018 (H5N6)	H5	22/11/2018 (H5N6)	-	-
Yunnan	-	-	H5	21/11/2018 (H5N6)	-	-
Malaysia	-	-	H5	02/09/2018 (H5N1)	-	-
Netherlands	-	-	-	-	H5	03/09/2018 (H5N6)
Nigeria	-	-	H5	28/01/2019 (H5N8)	-	-
Russia	-	-	H5	28/01/2019* 16/08/2018 (H5N2)	-	-
South Africa	-	-	H5	28/01/2019 (H5N8)	-	-
Taiwan	-	-	H5	13/08/2018* 28/01/2019 (H5N2)	-	-
Vietnam	-	-	H5	10/01/2019 (H5N1) 22/12/2018 (H5N6)	-	-

Sources: WHO, OIE, NHC and other official websites

\* without further subtype information