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

Avian Influenza Report

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Summary

1. There were no new human cases of avian influenza A(H5N1) reported by the World Health Organization (WHO).[#]

2. From 2011 to 2015, 32 to 143 confirmed human cases of avian influenza A(H5N1) were reported to WHO annually (according to onset date).* In 2016 (as of January 9), there were no new cases reported by WHO so far.

3. Since the previous issue of Avian Influenza Report, 12 new human cases of avian influenza A(H7N9) were reported by health authorities in Mainland China, including 8 cases in Zhejiang, 2 cases in Jiangsu, 1 case in Guangdong and 1 case in Shanghai. Since March 2013 (as of January 12, 2016), there were a total of 698 cases reported globally. Since October 2015 (as of January 12, 2016), 21 human cases of avian influenza A(H7N9) have been recorded in Mainland China.

[#] 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.

* According to the latest report published in December, 2015

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(H5N1) / avian influenza A(H7N9)**

	No. of H5N1 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 human cases of avian influenza A(H5N1)**

	Place of occurrence	**No. of cases (No. of deaths)**	**Details**
In this reporting period	**-**	0(0)	**-**

For the cumulative no. of human cases by place, please refer to WHO/WPRO website.

Table 3. **Outside Hong Kong: Confirmed cases of human infection with avian influenza A(H7N9)**

	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	Mainland China	1(0)	Guangdong	Jieyang	58	F	critical	6/1/2016
		1(0)	Shanghai	-	58	F	under treatment	9/1/2016
		2(0)	Zhejiang	Ningbo	Pending information		stable	11/1/2016
				Ningbo	Pending information		serious	
		8 (2)	Zhejiang	Huzhou	65	M	critical	12/1/2016
				Pinghu	51	F	died	
				Tongxiang	77	M	died	
				Huzhou	53	M	critical	
				Hangzhou	58	F	critical	
				Hangzhou	29	F	critical	
			Jiangsu	Wuxi	41	F	serious	
				Changshu	52	F	critical	

Table 4. **Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since October 2015 respectively**

Confirmed H7N9 human cases have been reported in the following countries / areas		**Cumulative no. of cases since 2013 (698 cases in total)** (as of January 12, 2016)	**Cumulative no. of cases since October 2015 (21 cases in total)** (as of January 12, 2016)
Mainland China	Zhejiang Province	197	13
	Guangdong Province	184	3
	Jiangsu Province	80	2
	Fujian Province	63	-
	Shanghai Municipality	50	2
	Anhui Province	30	-
	Hunan Province	26	-
	Jiangxi Province	12	1
	Xinjiang Uygur Autonomous Region	10	-
	Shandong Province	7	-
	Beijing Municipality	6	-
	Henan Province	4	-
	Guangxi Province	3	-
	Jilin Province	2	-
	Guizhou Province	2	-
	Hebei Province	1	-
	Hubei Province	1	-
Canada		2*	-
Hong Kong		13*	-
Malaysia		1*	-
Taiwan		4*	-

* All cases imported from Mainland China

Table 5. **Outside Hong Kong: Confirmed human cases of avian influenza A infections other than avian influenza A(H5N1 / H7N9) reported in the past 6 months**

	Place of occurrence	No. of cases (No. of deaths)	Details
In this reporting period	**Mainland China**	2(1)	**Avian influenza A(H5N6):** ▫ **Guangdong Province:** CHP was notified by Health and Family Planning Commission of Guangdong Province of a human case of avian influenza A(H5N6) affecting a 25-year-old man in Shenzhen. The patient was hospitalised for treatment and in serious condition at the time of reporting. (January 7, 2016) ▫ **Jiangxi Province:** a human case of avian influenza A(H5N6) was reported by the Health and Family Planning Commission of Jiangxi Province. The 42-year-old man lived in Jieyang, Guangdong, with exposure to poultry market and died on December 21, 2015, in a hospital in Ganzhou, Jiangxi. (January 10, 2016)
Previously reported cases (in the past 6 months)	**Mainland China**	3(2)	**Avian influenza A(H5N6):** ▫ **Yunnan Province:** A 37-year-old woman reported on July 11, 2015[i] ▫ **Guangdong Province:** A 26-year-old woman reported on December 29, 2015[ii] ▫ **Guangdong Province:** A 40-year-old woman reported on January 1, 2016[iii]
		4(0)	**Avian influenza A(H9N2):** ▫ **Anhui Province:** A 4-year-old girl reported on December 14, 2015[iv] ▫ **Hunan Province:** A two-year-old boy, a fifteen-year-old girl and a one-year-old girl reported on December 14, 2015[v]
	Bangladesh	1(0)	**Avian influenza A(H9N2):** ▫ **Bangladesh:** A 3.5-year-old girl reported on September 4, 2015[vi]

[i] Press release of Department of Health (Date: 11 July 2015)
[ii] Press release of Department of Health (Date: 29 December 2015)
[iii] Press release of Department of Health (Date: 1 January 2016)
[iv] The WHO reported one confirmed human case of avian influenza A(H9N2) in Anhui Province of Mainland China in the Monthly Risk Assessment Summary in December.
[v] The WHO reported three confirmed human cases of avian influenza A(H9N2) in Hunan Province of Mainland China in the Monthly Risk Assessment Summary in December.
[vi] The WHO reported one confirmed human case of avian influenza A(H9N2) in Bangladesh in the Monthly Risk Assessment Summary in September.

Table 6. **Hong Kong: Confirmed reports of avian influenza A(H5) or avian influenza A(H7N9) in poultry / wild birds since 2014**

	No. of reports of H5 in poultry / wild birds	No. of reports of H7N9 in poultry / wild birds	Details
In this reporting period	1	0	**Avian influenza A(H5N6):** A dead great egret found in Diamond Hill, Wong Tai Sin, was confirmed to be H5N6 positive after laboratory testing. The dead bird was found and collected from a non-public area near Spring Hill in the Nan Lian Garden, Diamond Hill, Wong Tai Sin, on December 31, 2015. Great egret is a common resident of Hong Kong and some are winter visitors.
Previously reported cases since 2014	3*	2#	-

* The Government confirmed on April 9, 2015 that the carcass of a peregrine falcon found at a construction site in Hung Shui Kiu, Yuen Long was tested positive for H5N6 virus.

The Government confirmed that the carcass of an oriental magpie robin found in Sai Kung on April 29, 2015 was tested positive for H5N6 virus.

The Government confirmed that the carcass of an oriental magpie robin found in Kwai Chung on November 17, 2015 was tested positive for H5N6 virus.

The Government confirmed on January 27, 2014 that a number of 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.

The Government found on December 30, 2014 a number of samples from a consignment of live chickens from a registered farm in Huicheng District of Huizhou in Guangdong tested positive for H7N9 virus.

Table 7. **Outside Hong Kong: Confirmed avian influenza A(H5), A(H7N9) or other highly pathogenic avian influenza in poultry / wild birds reported in this week**

Places of occurrence	No. of reports of H5N1	No. of reports of H5N6	Details
Nigeria, France, Vietnam	6	1	**Nigeria:** Samples from poultry in Delta State, Kano State, Enugu State, Edo State, Nasarawa State, Federal Capital Territory and Plateau State were tested positive for highly pathogenic avian influenza A(H5N1). (*OIE*, January 2, January 4, January 5 and January 11 (2 reports), 2016) **France:** Samples from poultry in Dordogne Province and Lot Province were tested positive for highly pathogenic avian influenza A (H5N1). (*OIE*, January 5, 2016) **Vietnam:** Samples from poultry in Quang Ngai Province and Kon Tum Province were tested positive for highly pathogenic avian influenza A (H5N6). (*OIE*, January 11, 2016)

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

Table 8. **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	Overall
Cases	4	46	98	115	88	44	73	48	62	32	39	52	143	844
Deaths	4	32	43	79	59	33	32	24	34	20	25	22	42	449
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%	29.4%	53.2%

[§] Further breakdown by countries is available at WHO website

Table 9. Countries / areas with documented avian influenza A H5, H7N9 or other highly pathogenic avian influenza cases in the recent 6 months (including infections in humans/birds and relevant environmental samples) (as of January 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)
Cambodia	-	-	H5	16/11/2015 (H5N1)	-	-
Cote D'Ivoire	-	-	H5	12/11/2015 (H5N1)	-	-
Egypt	H5N1	17/07/2015	Endemic	Endemic	-	-
France	-	-	H5	04/01/2016 (H5N1)	-	-
Germany	-	-	H7N7	27/07/2015 (H7N7)	-	-
Ghana	-	-	H5	25/12/2015 (H5N1)	-	-
Hong Kong	-	-	-	-	H5	05/01/2016 (H5N6)
Indonesia	-	-	Endemic	Endemic	-	-
Laos	-	-	H5	08/10/2015 (H5N6)	-	-
Mainland China						
Guangdong	H7N9 H5N6	06/01/2016 07/01/2016	H5	14/08/2015 (H5N6)	-	-
Hunan	-	-	H5	11/12/2015 (H5N6)	-	-
Inner Mongolia	-	-	-	-	H5	22/07/2015 (H5N1)
Jiangsu	H7N9	12/01/2016	H5	14/08/2015 (H5N2)	-	-
Jiangxi	H7N9 H5N6	05/01/2016 11/01/2016^	-	-	-	-
Qinghai	-	-	-	-	H5	17/07/2015 (H5N1)
Shanghai	H7N9	09/01/2016	-	-	-	-
Tibet Autonomous Region	-	-	-	-	H5	22/07/2015 (H5N1)
Yunnan	H5N6	11/07/2015	-	-	-	-
Zhejiang	H7N9	12/01/2016	-	-	-	-
Nigeria	-	-	H5	11/01/2016 (H5N1)	-	-
Palestinian Autonomous Territories	-	-	-	-	H5	15/10/2015*
Republic of Korea	-	-	H5	04/12/2015 (H5N8)	-	-
Russia	-	-	-	-	H5	21/08/2015 (H5N1)
Taiwan	-	-	H5	04/01/2016 (H5N2) 04/01/2016 (H5N8)	-	-
United Kingdom	-	-	H7N7	13/07/2015 (H7N7)	-	-
Vietnam	-	-	H5	11/01/2016 (H5N6)		

Sources: WHO, OIE, NHFPC and other official websites
^ imported case from Guangdong
*without further subtype information

Table 10. **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 January 2016)	No. of recent cases^ (October 2015 to January 2016)
Azerbaijan	8	0
Bangladesh	7	0
Cambodia	56	0
Canada	1	0
Mainland China	52	0
Djibouti	1	0
Egypt	346	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	844	0

^ Details of recent cases (October 2015 to January 2016) are listed in *Table 11*.

Table 11. **Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO / NHFPC** (October 2015 to January 2016) (Sources: WHO, NHFPC)

Date of report	Country	Province / Region	District / City	Sex	Age	Outcome at the time of reporting
-	-	-	-	-	-	-

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.