

# 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 January 23, 2016), there were a total of 700 human cases of avian influenza A(H7N9) reported globally. Since October 2015 (as of January 23, 2016), 23 cases have been recorded in Mainland China.
2. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N6). Since 2013 (as of January 20, 2016), ten human cases of avian influenza A(H5N6) have been detected globally and all occurred in Mainland China. These included nine cases announced by the World Health Organization (WHO) and one case detected through routine surveillance and reported in the scientific literature.
3. One new human case of avian influenza A(H5N1) from Bangladesh with onset in October 2015 was reported by WHO on January 20, 2016. From 2011 to 2015, 32 to 145 confirmed human cases of avian influenza A(H5N1) were reported to WHO annually (according to onset date).\*

\* 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, 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)**

	<b>No. of H5 cases (No. of deaths)</b>	<b>No. of H7N9 cases (No. of deaths)</b>	<b>Details</b>
<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)**

	<b>Place of occurrence</b>	<b>No. of cases (No. of deaths)</b>	<b>Province / Region / Municipality</b>	<b>City / District / Area</b>	<b>Age (years)</b>	<b>Sex</b>	<b>Condition at time of reporting</b>	<b>Date of report</b>
<b>New cases</b>	-	0(0)	-	-	-	-	-	-

**Table 3. 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 (700 cases in total) (as of January 23, 2016)	Cumulative no. of cases since October 2015 (23 cases in total) (as of January 23, 2016)
Mainland China	Zhejiang Province	197	13
	Guangdong Province	186	5
	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 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 December 2015 respectively**

Confirmed H5N6 human cases have been reported in the following countries / areas		Cumulative no. of cases since 2014 (10 cases in total) (as of January 23, 2016)	Cumulative no. of cases since December 2015 (5 cases in total) (as of January 23, 2016)
Mainland China	Guangdong	5	4
	Yunan	3 <sup>^</sup>	-
	Sichuan	1	-
	Jiangxi	1 <sup>*</sup>	1 <sup>*</sup>

<sup>^</sup> including one case detected through routine surveillance and reported in scientific literature

<sup>\*</sup> 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
New Cases	Bangladesh	1(0)	<b>Bangladesh:</b> A 60-year-old male from Mymensing District was hospitalized on October 12, 2015. The patient fully recovered. The patient had a history of exposure to poultry. (WHO, January 20, 2016)

For the cumulative no. of human cases by place, please refer to [WHO/WPRO](http://www.who.int/wpro) 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	Overall
<b>Cases</b>	4	46	98	115	88	44	73	48	62	32	39	52	145	846
<b>Deaths</b>	4	32	43	79	59	33	32	24	34	20	25	22	42	449
<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%	53.1%

<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 / NHFPC since 2003 (by date of reporting)**

<b>Country</b>	<b>Cumulative no. of cases (December 2003 to January 2016)</b>	<b>No. of recent cases<sup>^</sup> (October 2015 to January 2016)</b>
Azerbaijan	8	0
Bangladesh	8	1
Cambodia	56	0
Canada	1	0
Mainland China	53	1
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	846	2

<sup>^</sup> Details of recent cases (October 2015 to January 2016) are listed in *Table 9*.

**Table 9. Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO / NHFPC (October 2015 to January 2016) (Sources: WHO, NHFPC)**

<b>Date of report</b>	<b>Country</b>	<b>Province / Region</b>	<b>District / City</b>	<b>Sex</b>	<b>Age</b>	<b>Outcome at the time of reporting</b>
14/1/2016	Mainland China	Sichuan	Chengdu	M	42	Critical
20/1/2016	Bangladesh	-	Mymensing	M	60	Recovered

**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>	<b>Bangladesh</b>	1(0)	<b>Avian influenza A(H9N2):</b> WHO reported a human case of avian influenza A(H9N2) affecting a 46-year-old male poultry worker in a market in Dhaka City. The patient recovered. ( <i>WHO</i> , January 20, 2016)
<b>Previously reported cases (in the past 6 months)</b>	<b>Mainland China</b>	4(0)	<b>Avian influenza A(H9N2):</b> <ul style="list-style-type: none"> <li>▫ <b>Anhui Province:</b> A 4-year-old girl reported on December 14, 2015<sup>i</sup></li> <li>▫ <b>Hunan Province:</b> A two-year-old boy, a fifteen-year-old girl and a one-year-old girl reported on December 14, 2015<sup>ii</sup></li> </ul>
	<b>Bangladesh</b>	1(0)	<b>Avian influenza A(H9N2):</b> <ul style="list-style-type: none"> <li>▫ <b>Bangladesh:</b> A 3.5-year-old girl reported on September 4, 2015<sup>iii</sup></li> </ul>

<sup>i</sup> 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.

<sup>ii</sup> 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.

<sup>iii</sup> The WHO reported one confirmed human case of avian influenza A(H9N2) in Bangladesh in the Monthly Risk Assessment Summary in September.

**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>	0	0	-
<b>Previously reported cases since 2014</b>	4*	2 <sup>#</sup>	-

\* The Government confirmed that the carcass of a peregrine falcon found at a construction site in Hung Shui Kiu, Yuen Long on April 9, 2015 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 that the carcass of an great egret found in Diamond Hill, Wong Tai Sin on December 31, 2015 was tested positive for H5N6 virus.

<sup>#</sup> 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 12. 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 H5N2	No. of reports of H5N3	Details
Nigeria, Cote D'Ivoire, India, France, Mainland China	8	1	1	<p><b>Nigeria:</b> Samples from poultry in Enugu State, Delta State, Ebonyi State, Kano State, Bauchi State, Katsina State, Plateau State, Kaduna State, Adamawa State, Federal Capital Territory and Edo State were tested positive for highly pathogenic avian influenza A(H5N1). (<i>OIE</i>, January 19, 2016 (2 reports), January 21, 2016 (2 reports) and January 25, 2016)</p> <p><b>Cote D'Ivoire:</b> Samples from poultry in Abidjan City were tested positive for highly pathogenic avian influenza A (H5N1). (<i>OIE</i>, January 19, 2016)</p> <p><b>India:</b> Samples from poultry in Tripura State were tested positive for highly pathogenic avian influenza A (H5N1). (<i>OIE</i>, January 19, 2016)</p> <p><b>France:</b> Samples from poultry in Landes Province were tested positive for low pathogenic avian influenza A (H5N3). (<i>OIE</i>, January 22, 2016)</p> <p><b>France:</b> Samples from poultry in Landes Province and Gers Province were tested positive for low pathogenic avian influenza A (H5N2). (<i>OIE</i>, January 22, 2016)</p> <p><b>Mainland China:</b> Samples from poultry in Guizhou Province were tested positive for highly pathogenic avian influenza A (H5N1). (<i>OIE</i>, January 22, 2016)</p>

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



**Table 13. 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 25, 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)
Bangladesh	H5N1	20/01/2016	-	-	-	-
Cambodia	-	-	H5	16/11/2015 (H5N1)	-	-
Cote D'Ivoire	-	-	H5	19/01/2016 (H5N1)	-	-
Egypt	H5N1	17/07/2015	Endemic	Endemic	-	-
France	-	-	H5	12/01/2016 (H5N1) 12/01/2016 (H5N2)	-	-
Germany	-	-	H7N7	27/07/2015 (H7N7)	-	-
Ghana	-	-	H5	25/12/2015 (H5N1)	-	-
Hong Kong	-	-	-	-	H5	05/01/2016 (H5N6)
India	-	-	H5	19/01/2016 (H5N1)	-	-
Indonesia	-	-	Endemic	Endemic	-	-
Laos	-	-	H5	08/10/2015 (H5N6)	-	-
Mainland China						
Guangdong	H7N9 H5N6	14/01/2016 18/01/2016	H5	14/08/2015 (H5N6)	-	-
Guizhou	-	-	H5	22/01/2016 (H5N1)	-	-
Hunan	-	-	H5	18/01/2016 (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	-	-	-	-
Sichuan	H5N1	14/01/2016	-	-	-	-
Tibet Autonomous Region	-	-	-	-	H5	22/07/2015 (H5N1)
Yunnan	H5N6	11/07/2015	-	-	-	-
Zhejiang	H7N9	12/01/2016	-	-	-	-
Nigeria	-	-	H5	25/01/2016 (H5N1)	-	-
Palestinian Autonomous Territories	-	-	-	-	H5	15/10/2015*
Republic of Korea	-	-	H5	04/12/2015 (H5N8)	-	-
Russia	-	-	-	-	H5	21/08/2015 (H5N1)
Taiwan	-	-	H5	15/01/2016 (H5N2) 04/01/2016 (H5N8)	-	-
United Kingdom	-	-	H7N7	13/07/2015 (H7N7)	-	-
United States	-	-	H7N8	15/01/2016 (H7N8)	-	-
Vietnam	-	-	H5	15/01/2016 (H5N6)		

Sources: WHO, OIE, NHFPC and other official websites

^ imported case from Guangdong

\*without further subtype information