

Summary

1. There was one new human case of avian influenza A(H5N1) from Indonesia reported by the World Health Organization (WHO).[#]
2. From 2008 to 2013, 32 to 73 confirmed human cases of avian influenza A(H5N1) were reported to WHO annually. In 2014 (as of May 31), 16 cases were reported by WHO[^].
3. During this reporting period, there were no new human cases of avian influenza A(H7N9). Since March 2013 (as of May 31, 2014), there were a total of 444 cases reported.

[#] Since November 21, 2012, WHO only publishes information on human cases with avian influenza A(H5N1) infection on a monthly basis in “[Influenza at human - animal interface: Monthly Risk Assessment Summary](#)”. Cases of human infection with H5N1 will only be reported in Disease Outbreak News for events that are unusual or associated with potential increased risks

[^] According to date of disease onset

This week's highlights

(as of May 31, 2014) (Sources: WHO, NHFPC, CHP and the 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	Indonesia	1(1)	Indonesia: A 2-year-old boy from Central Java was confirmed positive for avian influenza A(H5N1) infection. He has passed away. He had contact with sick/dead poultry before onset of illness. (WHO, as of 5 May 2014)

For the cumulative no. of human cases by place, please refer to [WHO/WPRO](http://www.who.int/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 / Municipality	City / District / Area	Age (years)	Sex	Condition at time of reporting	Date of report
In this reporting period	-	-	-	-	-	-	-	-

Table 4. Cumulative number of confirmed cases of human infection with avian influenza A(H7N9) since 2013

Confirmed H7N9 human cases have been reported in the following countries / areas		Cumulative no. of cases (444 cases in total) (as of June 2, 2014)
China	Zhejiang Province	138
	Guangdong Province	108
	Jiangsu Province	54
	Shanghai Municipality	41
	Fujian Province	22
	Hunan Province	23
	Anhui Province	17
	Hong Kong [%]	10 (*all cases imported from Guangdong Province)
	Jiangxi Province	8
	Henan Province	4
	Beijing Municipality	4
	Guangxi Province [@]	3 (*1 case imported from Guangdong Province)
	Shandong Province ⁺	3 (*1 case imported from Jiangsu Province)
	Taiwan [*]	4 (*3 cases imported from Jiangsu Province and 1 case had travel history to Beijing and Jiangsu Province)
	Guizhou Province [#]	1 (*imported from Zhejiang Province)
	Hebei Province	1
	Jilin Province	2
Malaysia ^{&}		1 (*imported from Guangdong Province)

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	-	-	-
Previously reported cases	China	1(1)	Avian influenza A(H5N6): ▫ Sichuan Province: A 49-year-old man, reported on 6 May 2014.ⁱ
		3(2)	Avian influenza A(H10N8): ▫ Jiangxi Province: A 75-year-old man, reported on 13 February 2014.ⁱⁱ ▫ Jiangxi Province: A 55-year-old woman, reported on 25 January 2014.ⁱⁱⁱ ▫ Jiangxi Province: A 73-year-old woman, reported on 17 December 2013.^{iv}

Table 6. Hong Kong: Confirmed reports of avian influenza A(H5N1) or avian influenza A(H7N9) in poultry / wild birds since 2013

	No. of reports of H5N1 in poultry / wild birds	No. of reports of H7N9 in poultry / wild birds	Details
In this reporting period	0	0	-
Cumulative since 2013	1 ⁰	1 [#]	-

⁰ For further information, please visit the website of the [Agriculture, Fisheries and Conservation Department](#)

[#] [Live poultry imported from Mainland tested positive for H7 avian influenza virus](#)

ⁱ [Detection of avian influenza A\(H5N6\) virus from a patient in Sichuan closely monitored by DH](#)

ⁱⁱ [CHP notified by NHFPC of fatal human case of avian influenza A\(H10N8\) in Jiangxi](#)

ⁱⁱⁱ [One case of avian influenza A\(H10N8\) in Mainland closely monitored by DH](#)

^{iv} [CHP notified by NHFPC of human fatal case of avian influenza A\(H10N8\) in Jiangxi](#)

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

Places of occurrence	No. of reports of H5N1	No. of reports of H7N9	Details
-	-	-	-

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 since 2003 (by onset date) [§]

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	Overall
Cases	4	46	98	115	88	44	73	48	62	32	39	16	665
Deaths	4	32	43	79	59	33	32	24	34	20	25	7	392
Case Fatality Rate	100%	69.6%	43.9%	68.7%	67.0%	75.0%	43.8%	50.0%	54.8%	62.5%	64.1%	43.8%	58.9%

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

Table 9. Countries / areas with documented avian influenza A H5N1, H7N9 or other highly pathogenic avian influenza cases in the recent 6 months (including infections in birds/humans and relevant environmental samples) (Sources: WHO, OIE, NHFPC and official websites; **Blue color:** Avian influenza A(H7N9) affected area; **Red color:** Avian influenza A(H7N9) and avian influenza A(H5N1)/(H5) affected area) * Most recent occurrence in that country / area. (as of 2 June 2014)
Italics: Not listed as an affected area because the case was imported.

Country/ Area	Date of last report	Human cases	Poultry cases/ environmental samples	Wild bird cases
Cambodia	21/03/2014	Y	Y*	N
<i>Canada (not an affected area)</i>	<i>09/01/2014</i>	<i>Y*^v</i>	<i>N</i>	<i>N</i>
China				
Anhui	22/05/2014	Y* ^{vi}	-	-
Beijing	06/02/2014	Y* ^{vii, viii}	-	-
Fujian	06/05/2014	Y ^{ix}	Y* ^x	-
Guangdong	17/05/2014	Y* ^{xi}	Y ^{xii}	-
Guangxi	11/02/2014	Y ^{xiii, xiv}	Y* ^{xv}	-
Guizhou	18/02/2014	Y ^{xvi}	Y* ^{xvii}	N
Hebei	21/12/2013	N	Y* ^{xviii}	N
<i>Hong Kong (not an affected area)</i>	<i>13/04/2014</i>	<i>Y*^{xix}</i>	<i>Y^{xx}</i>	<i>-</i>
Hubei	13/01/2014	N	Y* ^{xxi}	N
Hunan	12/05/2014	Y* ^{xxii, xxiii}	Y ^{xxiv}	-
Jiangsu	16/05/2014	Y* ^{xxv}	-	-
Jiangxi	01/05/2014	Y* ^{xxvi}	-	-
Jilin	09/05/2014	Y* ^{xxvii}	-	-
Macau	18/03/2014	-	Y* ^{xxviii}	-
Shandong	05/03/2014	Y* ^{xxix}	Y ^{xxx}	N
Shanghai	23/01/2014	Y* ^{xxxi}	-	-
Taiwan	02/05/2014	Y ^{xxxii}	Y* ^{xxxiii}	N
Yunnan	07/03/2014	N	Y* ^{xxxiv}	N
Zhejiang	28/02/2014	Y* ^{xxxv}	Y ^{xxxvi}	-
Democratic People's Republic of Korea	22/04/2014	N	Y*	N
Egypt	24/03/2014	Y*	Endemic	N
India	21/02/2014	N	Y	Y* ^{xxxvii}
Indonesia	05/05/2014	Y*	Endemic	N
Japan	18/04/2014	N	Y* ^{xxxviii}	N
Laos	31/03/2014	N	Y* ^{xxxix}	N
Libya	12/03/2014	N	Y*	N
<i>Malaysia (not an affected area)</i>	<i>12/02/2014</i>	<i>Y*^{xl}</i>	<i>-</i>	<i>-</i>
Nepal	26/02/2014	N	Y*	N
Republic of Korea	30/04/2014	N	Y* ^{xli}	N
Vietnam	20/03/2014	Y	Y*	N

^v WHO reported on 9 January 2014, a new confirmed human case of avian influenza A(H5N1) in Canada. The patient had visited Beijing from 6 to 27 December 2013, before his symptom onset on 27 December 2013.

^{vi} On 22 May 2014, CHP is closely monitoring an additional human case of avian influenza A(H7N9) in Anhui Province according to the latest report of the Mainland health authority.

^{vii} On 6 February 2014, CHP was notified by NHFPC regarding a human case of avian influenza A(H7N9) in Beijing Municipality.

^{viii} WHO reported on 9 January 2014, a new confirmed human case of avian influenza A(H5N1) in Canada. The patient had visited Beijing from 6 to 27 December 2013, before his symptom onset on 27 December 2013.

^{ix} On 29 March 2014, CHP was notified by NHFPC regarding a human case of avian influenza A(H7N9) in Fujian Province.

^x On 6 May 2014, OIE reported that chicken samples tested positive at a live bird market in Fujian Province.

^{xi} On 17 May 2014, CHP was notified by the Health and Family Planning Commission of Guangdong Province regarding a human case of avian influenza A(H7N9) in Guangdong Province.

^{xii} On 6 May 2014, OIE reported that specimens from live bird markets in Guangdong Province were tested positive for avian influenza A(H7N9).

^{xiii} On 1 February 2014, a human case of avian influenza A(H5N1) was confirmed in Guangxi Province.

^{xiv} On 6 February 2014, a human case of avian influenza A(H7N9) was confirmed in Guangxi Province.

^{xv} On 11 February 2014, specimens from a market in Guangxi Province were tested positive for avian influenza A(H7N9).

^{xvi} On 16 January 2014, CHP was notified by NHFPC regarding an additional human case of avian influenza A(H7N9) in Guizhou Province, which is imported from Zhejiang Province. The patient became ill when he was working in Zhejiang Province.

^{xvii} On 18 February 2014, highly pathogenic avian influenza A(H5N1) was reported on a poultry farm in Guizhou Province.

^{xviii} On 21 December 2013, highly pathogenic avian influenza A(H5N2) was reported on a poultry farm in Hebei Province.

^{xix} On 13 April 2014, CHP confirmed an imported human case of avian influenza A(H7N9) in Hong Kong.

Other confirmed human cases of avian influenza infections not included in the above table:

- (1) On 30 December 2013, CHP recorded a confirmed human case of influenza A(H9N2) affecting a man aged 86 years.

^{xx} In Hong Kong, a number of samples from a batch of live chicken imported from a registered poultry farm in Shunde District of Foshan City of Guangdong Province were confirmed H7 positive on 27 January 2014. (<http://www.info.gov.hk/gia/general/201401/27/P201401270847.htm>)

^{xxi} On 13 January 2014, highly pathogenic avian influenza A(H5N1) was reported on a poultry farm in Hubei Province.

^{xxii} On 12 May 2014, CHP is closely monitoring an additional human case of avian influenza A(H7N9) in Hunan Province according to the latest report of the Mainland health authority.

^{xxiii} On 7 March 2014, WHO reported a confirmed human case of avian influenza A (H5N1) in Hunan Province.

^{xxiv} On 7 March 2014, specimens from markets in Hunan Province were tested positive for avian influenza A(H7N9).

^{xxv} On 16 May 2014, CHP is closely monitoring an additional human case of avian influenza A(H7N9) in Jiangsu Province according to the latest report of the Mainland health authority.

^{xxvi} On 1 May 2014, CHP is closely monitoring an additional human case of avian influenza A(H7N9) in Jiangxi Province.

^{xxvii} On 9 May 2014, CHP was notified by NHFPC regarding a human case of avian influenza A(H7N9) in Jilin Province.

^{xxviii} On 18 April 2014, Macau SAR reported that environmental samples taken from a market were tested positive for H7N9.

(<http://www.gcs.gov.mo/showNews.php?PageLang=C&DataUcn=77827&Member=0>)

^{xxix} On 5 March 2014, CHP was notified by NHFPC regarding an imported human case of avian influenza A(H7N9) in Shandong Province. The patient became ill when he was in Jiangsu Province.

^{xxx} On 20 January 2014, specimens from a poultry farm in Shandong Province tested positive for avian influenza A(H5N2).

^{xxxi} On 23 January 2014, CHP was notified by NHFPC regarding an additional human case of avian influenza A(H7N9) in Shanghai municipality.

^{xxxii} One case of human infection with avian influenza A(H7N9) imported from Mainland China was reported in Taiwan on 25 April 2014.

^{xxxiii} On 2 May 2014, highly pathogenic avian influenza A(H5N2) was detected in a poultry specimen in Taiwan.

^{xxxiv} On 7 March 2014, highly pathogenic avian influenza A(H5N1) in poultry was reported in Yunnan Province.

^{xxxv} On 28 February 2014, CHP was notified by NHFPC regarding 2 human cases of avian influenza A(H7N9) in Zhejiang Province.

^{xxxvi} On 16 January 2014, specimens from markets in Zhejiang Province were tested positive for avian influenza A(H7N9).

^{xxxvii} On 21 February 2014, two house crows were tested positive for avian influenza A(H5N1) in India.

^{xxxviii} On 18 April 2014, avian influenza A(H5N8) was reported on a poultry farm in Japan.

^{xxxix} On 31 March 2014, avian influenza A(H5N6) was reported in poultry in Laos.

^{xl} On 12 February 2014, the Ministry of Health of Malaysia reported a confirmed human case of avian influenza A(H7N9). The patient was a tourist from Guangdong Province of China.

^{xli} On 30 April 2014, avian influenza A(H5N8) was reported on poultry farms in the Republic of Korea.

Table 10. Confirmed human cases of avian influenza A(H5N1) reported to WHO since 2003

Country	Cumulative no. of cases (December 2003 to June 2014)	No. of recent cases (March to June 2014)
Azerbaijan	8	0
Bangladesh	7	0
Cambodia	56	6
Canada	1	0
China	47	1
Djibouti	1	0
Egypt	175	2
Indonesia	196	1
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	665	10

Table 11. Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO (March to June 2014) (Sources: WHO)

Date of report by WHO	Country	Province / Region	District / City	Sex	Age	Outcome at the time of reporting
07/03/2014	China	Hunan	-	F	5	Recovered
07/03/2014	Cambodia	Kampong Cham	Cheung Prey	F	10	-
07/03/2014	Cambodia	Kampong Cham	Ponhea Krek	F	11	-
14/03/2014	Cambodia	Phnom Penh	Khan Por-SenChey	M	3	Fatal
14/03/2014	Cambodia	Kandal	Leuk-Dek	M	8	-
14/03/2014	Cambodia	Kampong Chhnang	Rolea Pa Ear	M	11	Fatal
21/03/2014	Cambodia	Kampot	Banteay Meas	F	2	Fatal
24/03/2014	Egypt	Behaira	-	F	56	-
24/03/2014	Egypt	Demitta	-	M	4	-
05/05/2014	Indonesia	Central Java	-	M	2	Fatal

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.