

Summary

1. There were no new confirmed human cases of avian influenza A(H5N1) reported by the World Health Organization (WHO).[#]
2. From 2008 to 2012, 32 to 73 confirmed human cases of avian influenza A(H5N1) were reported to WHO annually. In 2013 (as of Jun 22), 20 cases were reported by WHO.
3. No new confirmed human cases of avian influenza A(H7N9) were reported by WHO and the National Health and Family Planning Commission (NHFPC) during the reporting period. As of June 22, a total of 132 cases were reported.

This week's highlights

(as of Jun 22, 2013) (Sources: WHO, World Health Organization for Animal Health (OIE) and NHFPC)

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)	-

[#] 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.

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](#) 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)	Details
In this reporting period	-	0(0)	-

Table 4. Hong Kong: Confirmed reports of avian influenza A(H5N1) in poultry / wild birds

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

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

Table 5. Outside Hong Kong: Confirmed avian influenza A(H5N1) in poultry / wild birds

Place of occurrence	No. of reports of H5N1 in poultry / wild birds	Details
-	0	-

For cumulative reports of avian influenza A(H5N1) in poultry / wild birds, please select “Highly path. avian influenza” on the [OIE](#) website

Table 6. Outside Hong Kong: Confirmed avian influenza A(H7N9) in poultry / wild birds

Place of occurrence	No. of reports of H7N9 in poultry / wild birds	Details
-	0	-

For cumulative reports of avian influenza A(H7N9) in poultry / wild birds, please select “Low path. avian influenza” on the [OIE](#) website

Table 7. 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	Overall
Cases	4	46	98	115	88	44	73	48	62	32	20	630
Deaths	4	32	43	79	59	33	32	24	34	20	15	375
Case Fatality Rate	100%	69.6%	43.9%	68.7%	67.0%	75.0%	43.8%	50.0%	54.8%	62.5%	75.0%	59.5%

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

Table 8. In the past 6 months, highly pathogenic avian influenza infections were confirmed in the following countries/areas (Sources: WHO, OIE, NHFPC and official websites; **Blue: H7N9 related cases**)

Country/ Area	Date of last report of	Human cases	Poultry cases	Wild bird cases
Bangladesh	29/04/2013	N	Y*	N
Bhutan	08/02/2013	N	Y*	N
Cambodia	17/05/2013	Y*	Y	N
China				
Anhui	23/04/2013	Y* ⁱ	Y ⁱⁱ	-
Beijing	29/05/2013	Y* ⁱⁱⁱ	-	-
Fujian	09/05/2013	Y ^{iv}	- ^v	-
Guangdong	21/05/2013	-	Y* ^{vi}	-
Guizhou	15/02/2013	Y*	N	N
Henan	25/04/2013	Y* ^{vii}	Y ^{viii}	-
Hong Kong	29/01/2013	N	N	Y* ^{ix}
Hunan	01/05/2013	Y* ^x	-	-
Jiangsu	26/04/2013	Y* ^{xi}	Y ^{xii}	-
Jiangxi	07/05/2013	Y* ^{xiii}	Y ^{xiv}	-
Shandong	05/05/2013	Y ^{xv}	Y* ^{xvi}	-
Shanghai	20/04/2013	Y* ^{xvii}	Y ^{xviii}	-
Taiwan	24/04/2012	Y* ^{xix}	Y ^{xx}	N
Tibet	13/05/2013	N	Y*	N
Zhejiang	28/04/2013	Y* ^{xxi}	Y ^{xxii}	-
Democratic People's Republic of Korea	13/05/2013	N	Y*	N
Denmark	18/01/2013	N	N	Y* ^{xxiii}
Egypt	04/06/2013	Y*	Endemic	N

ⁱ One case of human infection with avian influenza A(H7N9) in Anhui Province was reported by the National Health and Family Planning Commission on April 23, 2013.

ⁱⁱ On 10 April 2013, chicken and duck samples from live bird markets in Anhui Province were tested positive for low pathogenic avian influenza A(H7N9).

ⁱⁱⁱ One case of human infection with avian influenza A(H7N9) in Beijing Municipality, China, was reported by WHO on May 29, 2013.

^{iv} One case of human infection with avian influenza A(H7N9) in Fujian Province was reported by the National Health and Family Planning Commission on May 6, 2013.

^v On 9 May 2013, a sample from the environment at a market in Fujian Province was tested positive for low pathogenic avian influenza A(H7N9).

^{vi} On 21 May 2013, a sample from chicken in Guangdong Province was tested positive for low pathogenic avian influenza A(H7N9).

^{vii} One case of human infection with avian influenza A(H7N9) in Henan Province was reported by the Henan Provincial Health Bureau on April 25, 2013.

^{viii} On April 24, 2013, environment samples from live bird markets in Henan Province were tested positive for low pathogenic avian influenza A(H7N9).

^{ix} The most recent avian influenza A(H7N9) virus positive wild bird carcass collected in Hong Kong was a Black-headed Gull in Tuen Mun.

^x One case of human infection with avian influenza A(H7N9) in Hunan Province was reported by the National Health and Family Planning Commission on May 1, 2013.

^{xi} Three cases of human infection with avian influenza A(H7N9) in Jiangsu Province was reported by the National Health and Family Planning Commission on April 26, 2013.

^{xii} On 22 April 2013, a pigeon sample from a farm in Jiangsu Province was tested positive for low pathogenic avian influenza A(H7N9).

^{xiii} One case of human infection with avian influenza A(H7N9) in Jiangxi Province were reported by the National Health and Family Planning Commission on May 7, 2013.

^{xiv} On 5 May 2013, a sample from chicken at a market in Jiangxi Province was tested positive for low pathogenic avian influenza A(H7N9).

^{xv} One case of human infection with avian influenza A(H7N9) in Shandong Province was reported by the National Health and Family Planning Commission on April 28, 2013.

^{xvi} On 5 May 2013, three samples from the environment at a live bird market in Shandong Province was tested positive for low pathogenic avian influenza A(H7N9).

^{xvii} One case of human infection with avian influenza A(H7N9) in Shanghai Municipality was reported by the National Health and Family Planning Commission on April 20, 2013.

^{xviii} Low pathogenic avian influenza A(H7N9) was reported in markets in Shanghai Municipality on April 5, 2013.

^{xix} One imported case of human infection with avian influenza A(H7N9) from Jiangsu Province was reported by the Taiwan Centers for Disease Control on April 24, 2013.

^{xx} On December 7, 2012, avian influenza A(H5N2) was reported on a poultry farm in Peng Hu county, Taiwan, China.

^{xxi} One case of human infection with avian influenza A(H7N9) in Zhejiang Province were reported by the National Health and Family Planning Commission on April 28, 2013.

^{xxii} On April 26, 2013, chicken samples from a live bird market in Zhejiang Province were tested positive for low pathogenic avian influenza A(H7N9).

^{xxiii} Avian influenza A(H7) was reported in Mallards in Denmark.

Country/ Area	Date of last report of	Human cases	Poultry cases	Wild bird cases
India	09/03/2013	N	Y*	N
Indonesia	17/12/2012	Y*	Endemic	N
Mexico	12/06/2013	N	Y* ^{xxiv}	Y
Nepal	26/05/2013	N	Y*	N
South Africa	15/04/2013	N	Y* ^{xxv}	N
Vietnam	26/04/2013	Y*	N	N

Table 9. Confirmed human cases of avian influenza A(H5N1) reported to WHO since 2003

Country	Cumulative no. of cases (December 2003 to June 2013)	No. of recent cases (March 2013 to June 2013)
Azerbaijan	8	0
Bangladesh	7	1
Cambodia	32	4
China	45	0
Djibouti	1	0
Egypt	173	3
Indonesia	192	0
Iraq	3	0
Laos	2	0
Myanmar	1	0
Nigeria	1	0
Pakistan	3	0
Thailand	25	0
Turkey	12	0
Vietnam	125	2
Overall	630	10

^{xxiv} On 12 June 2013, avian influenza A(H7N3) was reported on poultry farms and backyard poultry in Mexico.

^{xxv} Avian influenza A(H5N2) was reported on commercial ostrich farms in South Africa.

Table 10. Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO (March 2013 to June 2013) (Sources: WHO)

Date of report by WHO	Country	Province / Region	District	Sex	Age	Outcome at the time of reporting
12/03/2013	Cambodia	Kampot	-	M	20 months old	Fatal
12/03/2013	Cambodia	Kampong Cham	Stueng Trang	M	35	Fatal
21/03/2013	Egypt	Menofia	Bagoor	F	40	-
04/04/2013	Cambodia	Kampot	Kampong Bay	M	5	Critical
26/04/2013	Egypt	Dakahlia	El Manzala	M	26	Fatal
26/04/2013	Vietnam	Dong Thap	-	M	4	Fatal
26/04/2013	Vietnam	Long An	-	F	20	-
26/04/2013	Bangladesh	Chittagong	-	M	2	-
17/05/2013	Cambodia	Kampong Speu	Thpong	F	5	-
04/06/2013	Egypt	Sohaq	-	F	25	Fatal

Avian Influenza Report is a weekly report produced by the Respiratory Disease Office of the Centre for Health Protection when the alert response level under the Government's Preparedness Plan for Influenza Pandemic in Hong Kong has been activated. This report highlights global avian influenza activity in humans and birds.