

Summary

1. The latest cases of human avian influenza H5N1 reported by the World Health Organization (WHO) included two cases in Indonesia (14 March 2011), one case in Egypt (15 March 2011) and one case in Bangladesh (16 March 2011).
2. From 2005 to 2007, about 100 laboratory-confirmed cases of human avian influenza H5N1 were reported to the WHO annually. In 2008, 2009 and 2010, 44, 73 and 48 cases were confirmed respectively. In 2011 (as of 19 March), 18 human cases of avian influenza A (H5N1) were confirmed.

This week's update

(as of Mar 19, 2011)		Confirmed human cases (deaths)	Reports in wild birds/ poultry
		Source: WHO	Source: World Organisation for Animal Health (OIE)
This week	Hong Kong	0 (0)	0
	Outside HK	4 (3)	2
	Affected countries	Bangladesh, Egypt & Indonesia	Japan & South Korea
	Details	<p>Bangladesh: A 16-month-old female from Dhaka was confirmed H5N1 positive. She had recovered. (16 Mar 2011, <i>WHO</i>)</p> <p>Egypt: A 38-year-old female from Ismailia Governorate was confirmed H5N1 positive. She had died. She had exposure to sick poultry. (15 Mar 2011, <i>WHO</i>)</p> <p>Indonesia: Two cases of avian influenza H5N1 infection were confirmed in West Java Province, including a 2-year-old boy who had exposure to sick and dead poultry and a 31-year-old female who visited a market where live poultry were sold. Both had died. The two cases were unrelated. (14 Mar 2011, <i>WHO</i>)</p>	<p>Japan: Wild birds in Aomori and Shimane died from avian influenza (H5N1) infection. (16 Mar 2011, <i>OIE</i>)</p> <p>South Korea: Poultry in Chungcheongnam-do and Gyeonggi-do died from avian influenza (H5N1) infection. (17 Mar 2011, <i>OIE</i>)</p>
Cumulative since Nov. 2003	Hong Kong	1 (0)	77 dead birds confirmed H5N1 positive (Total in 2011: 7 ⁶)
	Outside HK	533 (316)	
	Affected countries	15 *	63 #

[†] For further information, please visit the website of the Agriculture, Fisheries and Conservation Department (AFCD) : <http://www.afcd.gov.hk>

* The 15 affected countries included Azerbaijan, Bangladesh, Cambodia, China (18 provinces/cities including Anhui, Beijing, Fujian, Guangdong, Guangxi, Guizhou, Hong Kong, Hubei, Hunan, Jiangsu, Jiangxi, Liaoning, Shandong, Shanghai, Shanxi, Sichuan, Xinjiang, and Zhejiang), Djibouti, Egypt, Indonesia, Iraq, Laos, Myanmar, Nigeria, Pakistan, Thailand, Turkey and Vietnam.

For details of the OIE reported cases in poultry/wild birds, please visit: <http://www.oie.int/animal-health-in-the-world/update-on-avian-influenza/>

Table 1.

Confirmed human cases of avian influenza A (H5N1) reported to WHO since 2003 by onset date of the cases [§]

	2003	2004	2005	2006	2007	2008	2009	2010	2011	Overall
Cases	4	46	98	115	88	44	73	48	18	534
Deaths	4	32	43	79	59	33	32	24	10	316
Case Fatality Rate	100%	69.6%	43.9%	68.7%	67.0%	75.0%	43.8%	50.0%	55.6%	59.2%

[§] Further breakdown by countries is available at the government website “Prevention of Avian Influenza” (<http://www.info.gov.hk/info/flu/eng/global.htm>)

Table 2.

Countries/areas with confirmed highly pathogenic avian influenza cases in the past 6 months

WHO Region	Date of last report by WHO / OIE	Countries	In the past 6 months, H5N1 infections were confirmed in
Western Pacific	2011-03-17	South Korea	Poultry, Wild birds
	2011-03-16	Japan	Poultry, Wild birds
	2011-03-08	Vietnam	Human, Poultry
	2011-03-04	China (Hong Kong)	Human, Wild birds
	2011-02-25	Cambodia	Human, Poultry
South-East Asia	2011-03-16	Bangladesh	Human, Poultry
	2011-03-14	Indonesia ^{&}	Human, Poultry
	2011-03-07	India	Poultry
	2011-03-04	Myanmar	Poultry
	2010-12-05	Nepal	Poultry
Eastern Mediterranean	2011-03-15	Egypt ^{&}	Human
	2011-03-03	Palestinian Auton Territories	Poultry
Europe	2011-03-07	Israel	Poultry
Africa	2009-03-03	Nigeria ^{&}	Poultry
The Americas	--	--	--

[&] The World Organisation for Animal Health (OIE) has reported that avian influenza H5N1 is endemic in poultry in these countries.

Table 3.

Confirmed human cases of H5N1 reported to WHO since 2003

Country	Cumulative no. of cases (December 2003 to March 2011)	No. of recent cases (December 2010 to March 2011)
Azerbaijan	8	0
Bangladesh	2	1
Cambodia	13	3
China	40	0
Djibouti	1	0
Egypt	130	18
Indonesia	174	4
Iraq	3	0
Laos	2	0
Myanmar	1	0
Nigeria	1	0
Pakistan	3	0
Thailand	25	0
Turkey	12	0
Vietnam	119	0
Overall	534	26

Table 4.

Details of the recent confirmed human cases of H5N1 reported to WHO (December 2010 to March 2011)

Date of report by WHO	Country	District	Province	Sex	Age	Outcome
16/03/2011	Bangladesh	-	Dhaka	F	16m	Alive
15/03/2011	Egypt	-	Ismailia	F	38	Fatal
14/03/2011	Indonesia	Depok City	West Java	M	2	Fatal
14/03/2011	Indonesia	Bekasi City	West Java	F	31	Fatal
10/03/2011	Egypt	-	Dakahlia	F	17	Fatal
10/03/2011	Egypt	-	Behira	F	17	Alive
07/03/2011	Egypt	-	Kafr Elsheikh	M	2	Alive
07/03/2011	Egypt	-	Sharkia	F	32	Fatal
02/03/2011	Indonesia	Karawang	West Java	F	26	Fatal
28/02/2011	Egypt	-	Dakahlia	F	26	Alive
28/02/2011	Egypt	-	Menofia	M	45	Fatal
28/02/2011	Egypt	-	Damiata	M	4	Alive
25/02/2011	Cambodia	-	Banteay Meanchey	F	19	Fatal
25/02/2011	Cambodia	-	Banteay Meanchey	M	11m	Fatal
09/02/2011	Cambodia	-	Phnom Penh	F	5	Fatal
02/02/2011	Egypt	-	Gharbia	M	7	Alive
20/01/2011	Egypt	-	Alexandria	M	1	Alive
13/01/2011	Egypt	-	Giza	M	10	Alive
05/01/2011	Egypt	-	Sharkia	F	56	Alive
05/01/2011	Egypt	-	Qena	F	25	Fatal
05/01/2011	Egypt	-	Ismailia	M	27	Alive
05/01/2011	Egypt	-	Dakahlia	M	40	Fatal
29/12/2010	Egypt	Damanhour	El Beheira	F	28	Alive
29/12/2010	Egypt	Esna	Luxor	F	11	Fatal

09/12/2010	Indonesia	Bandung	West Java	F	21	Alive
08/12/2010	Egypt	-	Gharbia	F	30	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 aims to highlight important international developments on avian influenza preparedness and control and to monitor global avian influenza activity in humans and birds.

^o **Sources:** World Health Organization (WHO); World Organisation for Animal Health (OIE)