

Summary

1. The latest cases of human avian influenza H5N1 reported by the World Health Organization (WHO) occurred in Cambodia, Egypt and Bangladesh. There were reports of poultry die off in the village of the case in Cambodia and all other cases had contact with sick/dead poultry.
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 16 April), 33 human cases of avian influenza A (H5N1) were confirmed.

This week's update

(as of Apr 16, 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	6 (2)	2
	Affected countries	Cambodia, Egypt, Bangladesh	Israel, South Africa
	Details	<p>Cambodia: An 11-year-old girl died from avian influenza H5N1 infection in Kampong Cham province. There have been reports of poultry die off in her village. (11 Apr 2011, <i>WHO</i>)</p> <p>Egypt: Four cases of avian influenza H5N1 infection were confirmed. All had exposure to sick and/or dead poultry. They were:</p> <ul style="list-style-type: none"> • a 20-year-old woman from Behaira Governorate who died, • a 2-year-old girl from Menofeya Governorate who was in stable condition, • a 55-year-old woman from Behaira Governorate who had recovered, and • a 1-year-old boy from Fayoum Governorate who was in stable condition. (11 Apr 2011, <i>WHO</i>) <p>Bangladesh: A 2-year-old boy from Dhaka was confirmed positive for avian influenza H5N1 and has recovered. He had exposure to sick poultry. He did not have direct contact with the previous case from the same locality (reported by WHO on 16 Mar 2011). (11 Apr 2011, <i>WHO</i>)</p>	<p>Israel: A Marsh Harrier with respiratory symptoms was found in the wild in Judea and Samaria Area. It died and was tested positive for H5N1 infection. (11 Apr 2011, <i>OIE</i>)</p> <p>South Africa: Ostriches on commercial farms in Western Cape province were tested positive for avian influenza (H5N2) infection. (11 Apr 2011, <i>OIE</i>)</p>

Cumulative since Nov. 2003	Hong Kong	1 (0)	77 dead birds confirmed H5N1 positive (Total in 2011: 7 ⁰)
	Outside HK	548 (320)	
	Affected countries	15 *	63 #

⁰ 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	33	549
Deaths	4	32	43	79	59	33	32	24	14	320
Case Fatality Rate	100%	69.6%	43.9%	68.7%	67.0%	75.0%	43.8%	50.0%	42.4%	58.3%

[§] 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 (H5N1) 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	2011-04-08	Japan	Poultry, Wild birds
	2011-03-30	Vietnam	Human, Poultry
	2011-03-28	South Korea	Poultry, Wild birds
	2011-03-04	China (Hong Kong)	Human, Wild birds
	2011-02-25	Cambodia	Human, Poultry
South-East Asia	2011-04-01	Indonesia ^{&}	Human, Poultry
	2011-03-24	Bangladesh	Human, Poultry
	2011-03-23	Myanmar	Poultry
	2011-03-07	India	Poultry
	2010-12-05	Nepal	Poultry
Eastern Mediterranean	2011-04-06	Egypt ^{&}	Human
	2011-03-03	Palestinian Autonomous Territories	Poultry
Europe	2011-03-11	Israel	Poultry, Wild birds
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 April 2011)	No. of recent cases (January 2011 to April 2011)
Azerbaijan	8	0
Bangladesh	3	2
Cambodia	14	4
China	40	0
Djibouti	1	0
Egypt	141	26
Indonesia	176	5
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	549	37

Table 4.

Details of the recent confirmed human cases of H5N1 reported to WHO (January 2011 to April 2011)

Date of report by WHO	Country	District	Province	Sex	Age	Outcome at the time of reporting
11/04/2011	Bangladesh	Kamalapur	Dhaka	M	2	Alive
11/04/2011	Egypt	-	Fayoum	M	1	Alive
11/04/2011	Egypt	-	Behaira	F	55	Alive
11/04/2011	Egypt	-	Menofeya	F	2	Alive
11/04/2011	Egypt	-	Behaira	F	20	Fatal
11/04/2011	Cambodia	Steung Trang	Kampong Cham	F	11	Fatal
06/04/2011	Egypt	-	Behaira	M	1	Alive
06/04/2011	Egypt	-	Behaira	F	3	Alive
06/04/2011	Egypt	-	Alexandria	F	34	Alive
06/04/2011	Egypt	-	Kafr El-Shaikh	F	30	Alive
01/04/2011	Indonesia	Gunung Kidul	Yogyakarta	F	28	Fatal
29/03/2011	Egypt	-	Suez	M	32	Fatal
29/03/2011	Egypt	-	Giza	F	28	Alive
29/03/2011	Egypt	-	Behira	M	4	Alive
25/03/2011	Indonesia	Bekasi City	West Java	F	2	Alive
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

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)