

## Summary

1. The latest cases of human avian influenza H5N1 reported by the World Health Organization (WHO) occurred in Cambodia and Egypt. 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 23 April), 33 human cases of avian influenza A (H5N1) were confirmed.

## This week's update

(as of Apr 23, 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	3 (2)	4
	Affected countries	<b>Cambodia, Egypt</b>	<b>South Korea, Vietnam, Mongolia, Bangladesh</b>
	Details	<p><b>Cambodia:</b> A 5-year-old girl died from avian influenza H5N1 infection in Pea Raing district, Prey Veng province. There have been reports of poultry die off in her village. (21 Apr 2011, <i>WHO</i>)</p> <p><b>Egypt:</b> Two 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"> <li>• a 29-year-old man from Wadi Elrian area, Fayoum Governorate, who died, and</li> <li>• a one-and-a-half-year-old boy from Sennes District, Fayoum Governorate, who is in stable condition.</li> </ul> <p>There is no epidemiological link between the two cases. (21 Apr 2011, <i>WHO</i>)</p>	<p><b>South Korea:</b> Chickens in Gyeongsangbuk-do died and were positive for H5N1 infection. (18 Apr 2011, <i>OIE</i>)</p> <p><b>Vietnam:</b> Farm poultry in Quang Ngai, Tien Giang, Bac Kan, Ha Nam, Dak Lak and Quang Tri tested positive for H5N1 infection. (18 and 21 Apr 2011, <i>OIE</i>)</p> <p><b>Mongolia:</b> Three Whooper Swans were reported dead and positive for avian influenza H5 infection in Sukhbaatar. (20 Apr 2011, <i>OIE</i>)</p> <p><b>Bangladesh:</b> 31 outbreaks occurred on poultry farms across provinces including Dhaka, Rajshahi and Chittagong, etc. (21 Apr 2011, <i>OIE</i>)</p>
Cumulative since Nov. 2003	Hong Kong	1 (0)	77 dead birds confirmed H5N1 positive (Total in 2011: 7 <sup>0</sup> )
	Outside HK	551 (322)	
	Affected countries	15 *	63 #

<sup>†</sup> 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 <sup>§</sup>**

	2003	2004	2005	2006	2007	2008	2009	2010	2011	Overall
<b>Cases</b>	4	46	98	115	88	44	73	48	36	552
<b>Deaths</b>	4	32	43	79	59	33	32	24	16	322
<b>Case Fatality Rate</b>	100%	69.6%	43.9%	68.7%	67.0%	75.0%	43.8%	50.0%	44.4%	58.3%

<sup>§</sup> 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
	2011-04-21	Vietnam	Human, Poultry
	2011-03-28	South Korea	Poultry, Wild birds
	2011-03-04	China (Hong Kong)	Human, Wild birds
	2011-04-21	Cambodia	Human, Poultry
	2011-04-20	Mongolia	Wild birds
South-East Asia	2011-04-01	Indonesia <sup>&amp;</sup>	Human, Poultry
	2011-04-21	Bangladesh	Human, Poultry
	2011-03-23	Myanmar	Poultry
	2011-03-07	India	Poultry
	2010-12-05	Nepal	Poultry
Eastern Mediterranean	2011-04-21	Egypt <sup>&amp;</sup>	Human
	2011-03-03	Palestinian Autonomous Territories	Poultry
Europe	2011-03-11	Israel	Poultry, Wild birds
Africa	2009-03-03	Nigeria <sup>&amp;</sup>	Poultry
The Americas	--	--	--

<sup>&</sup> 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	15	5
China	40	0
Djibouti	1	0
Egypt	143	28
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
<b>Overall</b>	<b>552</b>	<b>40</b>

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
21/04/2011	Cambodia	Pea Raing	Prey Veng	F	5	Fatal
21/04/2011	Egypt	Wadi Elrian	Fayoum	M	29	Fatal
21/04/2011	Egypt	Sennores	Fayoum	M	1	Alive
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.

<sup>o</sup> **Sources:** World Health Organization (WHO); World Organisation for Animal Health (OIE)