

### Summary

1. The latest case of avian influenza H5N1 in humans occurred in **Vietnam** and was confirmed by the World Health Organization (WHO) on 21 April 2010.
2. From 2005 to 2007, about 100 cases of avian influenza H5N1 in humans were confirmed by the WHO annually. In 2008 and 2009, 44 and 73 cases were confirmed respectively.

### This week's update

(as of 1 May 2010)		Confirmed human cases (deaths)	Wild birds/ poultry reports
		Source: WHO	Source: OIE
This week	Hong Kong	0 (0)	0
	Outside HK	0 (0)	3
	Affected countries	-	<b>Bangladesh, Cambodia and Vietnam</b>
	Details	-	<b>Bangladesh:</b> Poultry were affected by H5N1 outbreaks in Dhaka, Rajshahi and Chittagong ( <i>OIE</i> , Apr 25) <b>Cambodia:</b> Chickens and ducks were affected by H5N1 outbreaks in Prey Veng ( <i>OIE</i> , May 1) <b>Vietnam:</b> Farm poultry were affected by H5N1 outbreaks in Quang Ngai, Quang Ninh and Quang Tri ( <i>OIE</i> , Apr 29)
Cumulative since Nov. 2003	Hong Kong	0	<b>2010:</b> 1 dead bird has been confirmed H5N1 positive. <sup>o</sup>
	Outside HK	495 (292)	
	Affected countries	15 *	62 <sup>#</sup>
<sup>o</sup> For further information, please visit the web site of the Agriculture, Fisheries and Conservation Department (AFCD) : ( <a href="http://www.afcd.gov.hk">http://www.afcd.gov.hk</a> ) * The 15 affected countries included Azerbaijan, Bangladesh, Cambodia, 17 provinces in China ( <i>Anhui, Beijing, Fujian, Guangdong, Guangxi, Guizhou, Hubei, Hunan, Jiangsu, Jiangxi, Liaoning, Shandong, Shanghai, Shanxi, Sichuan, Xinjiang, Zhejiang</i> ), Djibouti, Egypt, Indonesia, Iraq, Laos, Myanmar, Nigeria, Pakistan, Thailand, Turkey and Vietnam. # Details of the OIE reported cases in poultry/wild birds: <a href="http://www.oie.int/eng/info_ev/en_AI_factoids_2.htm">http://www.oie.int/eng/info_ev/en_AI_factoids_2.htm</a>			

Table 1.

### WHO confirmed human cases of avian influenza A (H5N1) since 2003 by onset date of the cases (as of 1 May 2010) <sup>§</sup>

	2003	2004	2005	2006	2007	2008	2009	2010	Overall
<b>Cases</b>	4	46	98	115	88	44	73	27	495
<b>Deaths</b>	4	32	43	79	59	33	32	10	292
<b>Case Fatality Rate (CFR)</b>	100%	69.6%	43.9%	68.7%	67.0%	75%	43.8%	37.0%	59.0%

§ 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 affected by highly pathogenic avian influenza in the past 6 months**  
(as of 1 May 2010)

WHO Region	Date of last report by WHO / OIE	Countries	In the past 6 months, H5N1 has affected
Western Pacific	2010-05-01	<b>Cambodia</b>	Human, Poultry
	2010-04-29	<b>Vietnam</b>	Human, Poultry
	2010-04-07	<b>China (Hong Kong SAR)</b>	Wild birds
South-East Asia	2010-04-25	<b>Bangladesh</b>	Poultry
	2010-03-25	<b>Bhutan</b>	Poultry
	2010-03-14	<b>Nepal</b>	Poultry
	2010-03-05	<b>Myanmar</b>	Poultry
	2010-02-12	<b>Indonesia<sup>&amp;</sup></b>	<b>Human, Poultry</b>
	2010-02-11	<b>India</b>	Poultry
Eastern Mediterranean	2010-04-09	<b>Egypt<sup>&amp;</sup></b>	Human
Europe	2010-03-30	<b>Romania</b>	Poultry
	2010-01-26	<b>Israel</b>	Poultry
	2009-11-05	<b>Russia</b>	Wild birds
Africa	2009-03-03	<b>Nigeria<sup>&amp;</sup></b>	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.

**WHO confirmed human cases of H5N1 since 2003** (as of 1 May 2010)

Country	Cumulative no. of cases (December 2003 to May 2010)	No. of recent cases (February to May 2010)
Azerbaijan	8	0
Bangladesh	1	0
Cambodia	9	0
China	38	0
Djibouti	1	0
Egypt	109	15
Indonesia	163	1
Iraq	3	0
Laos	2	0
Myanmar	1	0
Nigeria	1	0
Pakistan	3	0
Thailand	25	0
Turkey	12	0
Vietnam	119	7
<b>Overall</b>	<b>495</b>	<b>23</b>

Table 4.

**Details of the recent WHO confirmed human cases of H5N1 (Feb to May 2010)**  
(as of 1 May 2010)

Date of report by WHO	Country	District	Province	Sex	Age	Outcome
21/04/10	Vietnam	Nhu Co	Bac Kan	M	22	Alive
21/04/10	Vietnam	Cho Moi	Bac Kan	F	2	Alive
09/04/10	Egypt	Etsa	Fayoum	F	18	Fatal
30/03/10	Egypt	Damietta	Damietta	F	30	Alive
30/03/10	Egypt	Beba	Beni Suaif	M	4	Fatal
29/03/10	Vietnam	Thuan An	Binh Duong	F	3	Fatal
16/03/10	Vietnam	Soc Son	Hanoi	F	25	Alive
12/03/10	Egypt	El Khanka	Qaliobia	F	20	Fatal
12/03/10	Egypt	Elhamool	Kfr Elsheikh	M	1	Alive
04/03/10	Egypt	Shobra Elkhima	Qaliobia	M	53	Fatal
04/03/10	Egypt	Banha	Qaliobia	M	1	Alive
04/03/10	Egypt	Meet Ghamr	Dakalia	M	10	Alive
04/03/10	Egypt	Kellin	Kafr El-Sheik	F	30	Alive
04/03/10	Egypt	Kafr El-Sheik	Kafr El-Sheik	M	13	Alive
04/03/10	Vietnam	Ninh Hoa	Khanh Hoa	F	3	Alive
04/03/10	Vietnam	Cai Be	Tien Giang	F	38	Fatal
04/03/10	Vietnam	Son Duong	Tuyen Quang	F	17	Alive
17/02/10	Egypt	Ashmon	Menofya	M	32	Alive
17/02/10	Egypt	Elsadat	Menofya	F	29	Fatal
12/02/10	Indonesia	South Jakarta	Jakarta	F	25	Fatal
10/02/10	Egypt	Helwan	Helwan	M	37	Fatal
08/02/10	Egypt	Elsadat	Menofya	F	29	Fatal
08/02/10	Egypt	Banha	Qalyubiya	F	40	Alive

*Avian Influenza Report* is a weekly report produced by the Respiratory Disease Office of the Centre for Health Protection as part of the Government's Preparedness Plan for Influenza Pandemic in Hong Kong. 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)