

## Summary

1. The latest cases of avian influenza H5N1 in humans occurred in **Vietnam** and **Egypt** (confirmed by the World Health Organization on 29 and 30 March 2010 respectively).
2. In the past few years, about 100 cases of avian influenza H5N1 in humans were confirmed by the WHO annually, except 2008 where there were only 44 cases. In 2009, a total of 72 cases were confirmed.

## This week's update

(as of 3 Apr 2010)		Confirmed human cases (deaths)	Wild birds/ poultry reports
		Source: WHO	Source: OIE
This week	Hong Kong	0 (0)	1 <sup>^</sup>
	Outside HK	3 (2)	1
	Affected countries	<b>Vietnam, Egypt</b>	<b>Romania</b>
	Details	<p><b>Vietnam:</b> A 3-year-old girl from Binh Duong province was hospitalized with H5N1 avian influenza infection. She has passed away and had exposure to sick and dead poultry. (29 Mar 2010, WHO)</p> <p><b>Egypt:</b> Two cases of human H5N1 avian influenza were confirmed.</p> <ul style="list-style-type: none"> <li>• The first is a 30-year-old woman from Damietta Governorate. She is in a critical condition.</li> <li>• The second is a 4-year-old boy from Beba Suaif Governorate. He has passed away.</li> </ul> <p>All had close contact with sick/dead poultry. (30 Mar 2010, WHO)</p>	<p><b>Hong Kong<sup>^</sup>:</b> A barn swallow found in Yuen Long was confirmed to be H5N1 positive. (AFCD, March 29)</p> <p><b>Romania:</b> Backyard chickens were affected by H5N1 outbreaks in Tulcea. (OIE, March 30)</p>
Cumulative since Nov. 2003	Hong Kong	0	<b>2010:</b> 1 dead bird confirmed H5N1 positive. <sup>0</sup>
	Outside HK	492 (291)	
	Affected countries	15 *	62 <sup>#</sup>
<p><sup>0</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>)</p> <p>* 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.</p> <p><sup>#</sup> 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></p> <p><sup>^</sup> Source: The Agriculture, Fisheries &amp; Conservation Department, Hong Kong (AFCD)</p>			

Table 1.

**WHO confirmed human cases of avian influenza A (H5N1) since 2003 by onset date of the cases (as of 3 Apr 2010) §**

	2003	2004	2005	2006	2007	2008	2009	2010	Overall
<b>Cases</b>	4	46	98	115	88	44	73	24	492
<b>Deaths</b>	4	32	43	79	59	33	32	9	291
<b>Case Fatality Rate (CFR)</b>	100%	69.6%	43.9%	68.7%	67.0%	75%	43.8%	37.5%	59.1%

§ 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 3 Apr 2010)**

WHO Region	Date of last report by WHO / OIE	Countries	In the past 6 months, H5N1 has affected
Western Pacific	2010-04-01 <sup>#</sup>	China (Hong Kong SAR)	Wild birds
	2010-03-29	Vietnam	Human, Poultry
	2010-02-05	Cambodia	Human, Poultry
South-East Asia	2010-03-25	Bhutan	Poultry
	2010-03-14	Nepal	Poultry
	2010-03-05	Myanmar	Poultry
	2010-02-12	Indonesia <sup>&amp;</sup>	Human, Poultry
	2010-02-11	India	Poultry
	2010-01-31	Bangladesh	Poultry
Eastern Mediterranean	2010-03-30	Egypt <sup>&amp;</sup>	Human
Europe	2010-03-30	Romania	Poultry
	2010-01-26	Israel	Poultry
	2009-11-05	Russia	Wild birds
	2009-10-13	Spain	Poultry
Africa	2009-10-16	Cote d'Ivoire	Wild birds
	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.

<sup>#</sup> A barn swallow found in Yuen Long was confirmed to be H5N1 positive. Source: The Agriculture, Fisheries and Conservation Department, Hong Kong.

Table 3.

**WHO confirmed human cases of H5N1 since 2003 (as of 3 Apr 2010)**

Country	Cumulative no. of cases (December 2003 to April 2010)	No. of recent cases (January to April 2010)
Azerbaijan	8	0
Bangladesh	1	0
Cambodia	9	0
China	38	0

Djibouti	1	0
Egypt	108	18
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	117	5
<b>Overall</b>	<b>492</b>	<b>23</b>

Table 4.

**Details of the recent WHO confirmed human cases of H5N1 (Jan to Apr 2010)**

(as of 3 Apr 2010)

Date of report by WHO	Country	District	Province	Sex	Age	Outcome
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
28/01/10	Egypt	Baniswief	Baniswief	F	20	Alive
28/01/10	Egypt	Dakahalya	Dakahalya	M	1	Alive
28/01/10	Egypt	Assuit	Assuit	M	1	Alive
28/01/10	Egypt	Shargea	Shargea	M	45	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)