

Reporting period: 28 June to 4 July 2009 (Week 27)

### Summary

1. The latest cases of avian influenza H5N1 in humans occurred in Egypt (confirmed by WHO on July 1).
2. In the past few years, about 100 cases of human AI infection were confirmed by the WHO annually, except 2008 where there were only 44 cases confirmed.
3. Cases occurred in the Western Pacific, South-East Asia and Eastern Mediterranean WHO regions. More cases were reported around January to March each year.

### This week's update

(as of 4 Jul 2009)		Confirmed human cases (deaths)	Wild birds/ poultry reports
		Source: WHO	Source: OIE
This week	Hong Kong	0 (0)	0
	Outside HK	3 (0)	0
	Affected countries	<b>Egypt</b>	-
	Details	<p><b>Egypt:</b> Three cases of human H5N1 infection were confirmed. (Jul 1, WHO)</p> <ul style="list-style-type: none"> <li>• The first case is a 1 year-old boy from Domiat Governorate. He has recovered.</li> <li>• The second case is a 4 year-old girl from Dakhlia Governorate. She has recovered.</li> <li>• The third case is a 1 year-old boy from Kefr El Sheikh Governorate. He is in stable condition.</li> </ul> <p>All of them had close contact with sick/dead poultry.</p>	-
Cumulative since Nov. 2003	Hong Kong	0	<b>2009:</b> 16 dead birds confirmed H5N1 positive <sup>θ</sup>
	Outside HK	436 (262)	
	Affected countries	15 *	62 <sup>#</sup>

<sup>θ</sup> For further information, please visit the web site of AFCD :

([http://www.afcd.gov.hk/english/quarantine/qua\\_vetlab/qua\\_vetlab\\_nldr/h5n1\\_health\\_advice.html](http://www.afcd.gov.hk/english/quarantine/qua_vetlab/qua_vetlab_nldr/h5n1_health_advice.html))

\* The 15 affected countries included Azerbaijan, Bangladesh, Cambodia, 17 provinces in China (*Anhui, Beijing, Fujian, Guangdong, Guangxi, Guizhou, Hubei, Hunan, Jiangsu, Jiangxi, Liaoning, Shandong, Shanghai, Shanxi, Sichuan, Xinjiang, Zhejiang*), Djibouti, Egypt, Indonesia, Iraq, Laos, Myanmar, Nigeria, Pakistan, Thailand, Turkey and Vietnam.

<sup>#</sup> Details of the OIE reported cases in poultry/wild birds: [http://www.oie.int/eng/info\\_ev/en\\_AI\\_factoids\\_2.htm](http://www.oie.int/eng/info_ev/en_AI_factoids_2.htm)

<sup>^</sup> Source: The Agriculture, Fisheries & Conservation Department, Hong Kong (AFCD)

Table 1.

**WHO confirmed human cases of avian influenza A (H5N1) since 2003 by onset date of the cases (as of 4 Jul 2009)<sup>§</sup>**

	2003	2004	2005	2006	2007	2008	2009	Overall
<b>Cases</b>	4	46	98	115	88	44	41	436
<b>Deaths</b>	4	32	43	79	59	33	12	262
<b>Case Fatality Rate (CFR)</b>	100.0%	69.6%	43.9%	68.7%	67.0%	75%	29.3%	60.1%

<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 affected by avian influenza (H5N1) in the past 6 months (as of 4 Jul 2009)**

WHO Region	Date of last report by WHO / OIE	Countries	In the past 6 months, H5N1 has affected
Western Pacific	2009-06-26	Vietnam	Human, Poultry
	2009-06-04	China (Qinghai)	Poultry, Wild birds
	2009-05-28	Mongolia	Wild birds
	2009-05-02 <sup>#</sup>	China (Hong Kong SAR)	Poultry, Wild birds
	2009-04-19	China (Tibet)	Poultry
	2009-02-26	Laos	Poultry
	2009-02-10	China (Xinjiang)	Human, Poultry
	2009-02-02	China (Hunan)	Human
	2009-01-27	China (Guangxi)	Human
	2009-01-27	China (Guizhou)	Human
	2009-01-19	China (Shandong)	Human
	2009-01-19 <sup>^</sup>	China (Shanxi)	Human
	2009-01-07	China (Beijing)	Human
South-East Asia	2009-06-17	Bangladesh	Poultry
	2009-05-27	India	Poultry
	2009-02-20	Nepal	Poultry
	2009-01-22	Indonesia	Human, Poultry
Eastern Mediterranean	2009-07-01	Egypt	Human
Europe	2009-06-02	Russia	Wild birds
	2009-03-10	Germany	Wild birds
Africa	--	--	--
The Americas	--	--	--

<sup>^</sup> This case developed symptoms in Hunan province and was brought to Shanxi province for medical treatment.

<sup>#</sup> A pigeon found in Tuen Mun was confirmed H5N1 positive. Source: The Agriculture, Fisheries & Conservation Department, Hong Kong.

Table 3.

**WHO confirmed human cases of H5N1 since 2003 (as of 4 Jul 2009)**

Country	Cumulative no. of cases (December 2003 to July 2009)	No. of recent cases (April to July 2009)
Azerbaijan	8	0
Bangladesh	1	0
Cambodia	8	0

China	38	0
Djibouti	1	0
Egypt	81	21
Indonesia	141	0
Iraq	3	0
Laos	2	0
Myanmar	1	0
Nigeria	1	0
Pakistan	3	0
Thailand	25	0
Turkey	12	0
Vietnam	111	2
<b>Overall</b>	<b>436</b>	<b>23</b>

Table 4.

**Details of the recent WHO confirmed human cases of H5N1 (Apr to Jul 09)**

(as of 4 Jul 2009)

Date of report by WHO	Country	District	Province	Sex	Age	Outcome
01/07/09	Egypt	Domiat	Domiat	M	1	Alive
01/07/09	Egypt	Dakhlia	Dakhlia	F	4	Alive
01/07/09	Egypt	Kaleen	Kefr El Sheikh	M	1	Alive
02/06/09	Egypt	Kefr El Sheikh	Kefr El Sheikh	F	4	Alive
01/06/09	Egypt	Dekernes	Dkhalia	F	1	Alive
28/05/09	Egypt	Hehia	Sharkia	M	4	Alive
28/05/09	Egypt	Abo Hammad	Sharkia	F	4	Alive
22/05/09	Egypt	Kafr Sakr	Sharkia	M	4	Alive
22/05/09	Egypt	Mahalla	Gharbia	M	3	Alive
22/05/09	Egypt	Meet Ghamr	Dakahlia	F	4	Fatal
22/05/09	Egypt	Sherbin	Dakahlia	M	4	Alive
22/05/09	Egypt	Sohag	Sohag	M	3	Alive
15/05/09	Egypt	Tama	Sohag	F	5	Alive
06/05/09	Vietnam	Quan Hoa	Thanh Hoa	F	23	Fatal
06/05/09	Egypt	Tanta	Gharbia	F	34	Alive
23/04/09	Egypt	Akhmim	Sohag	M	4	Alive
21/04/09	Egypt	Kellin	Kafr Elsheikh	F	1	Alive
21/04/09	Egypt	El Marg	Cairo	F	25	Fatal
17/04/09	Egypt	Kellin	Kfr El Sheikh	F	33	Fatal
08/04/09	Vietnam	Chau Thanh	Dong Thap	M	3	Fatal
08/04/09	Egypt	Shubra El Khema	Qaliobia	M	6	Fatal
08/04/09	Egypt	Kom Hamada	El Behira	M	2	Alive
08/04/09	Egypt	Kom Hamada	El Behira	M	2	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)