

Summary

1. The latest case of avian influenza H5N1 in humans occurred in **Egypt** (confirmed by the World Health Organization on 9 April 2010).
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 10 Apr 2010) | | Confirmed human cases (deaths) | Wild birds/ poultry reports |
|----------------------------|--------------------|--|---|
| | | Source: WHO | Source: OIE |
| This week | Hong Kong | 0 (0) | 0 |
| | Outside HK | 1 (1) | 1 |
| | Affected countries | Egypt | Vietnam |
| | Details | Egypt: An 18-year-old woman, from Fayoum Governorate, was hospitalized with H5N1 avian influenza infection. She has passed away and had exposure to sick and dead poultry. (WHO, Apr 9) | Vietnam: Village poultry were affected by H5N1 outbreaks in Bac Kan and Ouang Ninh (OIE, Apr 10) |
| Cumulative since Nov. 2003 | Hong Kong | 0 | 2010: 2 dead birds were confirmed H5N1 positive. ^θ |
| | Outside HK | 493 (292) | |
| | Affected countries | 15 * | 62 [#] |

^θ For further information, please visit the web site of the Agriculture, Fisheries and Conservation Department (AFCD) : (<http://www.afcd.gov.hk>)

* 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.

[#] Details of the OIE reported cases in poultry/wild birds: http://www.oie.int/eng/info_ev/en_AI_factoids_2.htm

Table 1.

WHO confirmed human cases of avian influenza A (H5N1) since 2003 by onset date of the cases (as of 10 Apr 2010)[§]

| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | Overall |
|---------------------------------|------|-------|-------|-------|-------|------|-------|-------|---------|
| Cases | 4 | 46 | 98 | 115 | 88 | 44 | 73 | 25 | 493 |
| Deaths | 4 | 32 | 43 | 79 | 59 | 33 | 32 | 10 | 292 |
| Case Fatality Rate (CFR) | 100% | 69.6% | 43.9% | 68.7% | 67.0% | 75% | 43.8% | 40.0% | 59.2% |

[§] 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 10 Apr 2010)

| WHO Region | Date of last report by WHO / OIE | Countries | In the past 6 months, H5N1 has affected |
|-----------------------|----------------------------------|----------------------------|---|
| Western Pacific | 2010-04-10 | Vietnam | Human, Poultry |
| | 2010-04-07 | China (Hong Kong SAR) | Wild birds |
| | 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 ^{&} | Human, Poultry |
| | 2010-02-11 | India | Poultry |
| | 2010-01-31 | Bangladesh | Poultry |
| Eastern Mediterranean | 2010-04-09 | Egypt ^{&} | 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 ^{&} | 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.

WHO confirmed human cases of H5N1 since 2003 (as of 10 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 | 109 | 19 |
| 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 |

| | | |
|----------------|------------|-----------|
| Overall | 493 | 25 |
|----------------|------------|-----------|

Table 4.

Details of the recent WHO confirmed human cases of H5N1 (Jan to Apr 2010)
(as of 10 Apr 2010)

| Date of report by WHO | Country | District | Province | Sex | Age | Outcome |
|------------------------------|----------------|-----------------|-----------------|------------|------------|----------------|
| 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 |
| 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.

^o **Sources:** World Health Organization (WHO); World Organisation for Animal Health (OIE)