

Reporting period: 12 to 18 April 2009 (Week 16)

**Summary**

1. The most recent case of avian influenza H5N1 in humans occurred in Egypt (confirmed by WHO on April 17).
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 18 Apr 2009)        |                    | Confirmed human cases (deaths)   | Wild birds/<br>poultry reports  |
|----------------------------|--------------------|--|---|
|                            |                    | Source: WHO  | Source: OIE   |
| This week                  | Hong Kong          | 0  | 0   |
|                            | Outside HK         | 1 (0)  | 1   |
|                            | Affected countries | <b>Egypt</b>   | <b>Bangladesh</b>   |
|                            | Details            | <b>Egypt:</b> A 33 year old woman from Kafr El Sheikh Governorate was confirmed H5N1 positive and in a critical condition. (Apr 17, WHO) | <b>Bangladesh:</b> Poultry in commercial and backyard farms in Dhaka, Barisal, Rajshahi and Chittagong districts were affected by H5N1. (Apr 13, OIE) |
| Cumulative since Nov. 2003 | Hong Kong          | 0  | <b>2009:</b> 15 dead birds confirmed H5N1 positive <sup>0</sup>   |
|                            | Outside HK         | 418 (257)  |   |
|                            | Affected countries | 15 *   | 62 <sup>#</sup>   |

<sup>0</sup> For further information, please visit the web site of AFCD :

([http://www.afcd.gov.hk/english/quarantine/qua\\_vetlab/qua\\_vetlab\\_ndr/h5n1\\_health\\_advice.html](http://www.afcd.gov.hk/english/quarantine/qua_vetlab/qua_vetlab_ndr/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 18 April 2009)<sup>§</sup>**

|                                 | 2003   | 2004  | 2005  | 2006  | 2007  | 2008 | 2009  | Overall |
|---------------------------------|--------|-------|-------|-------|-------|------|-------|---------|
| <b>Cases</b>                    | 4      | 46    | 98    | 115   | 88    | 44   | 23    | 418     |
| <b>Deaths</b>                   | 4      | 32    | 43    | 79    | 59    | 33   | 7     | 257     |
| <b>Case Fatality Rate (CFR)</b> | 100.0% | 69.6% | 43.9% | 68.7% | 67.0% | 75%  | 30.4% | 61.5%   |

<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 18 April 2009)**

| WHO Region            | Date of last report by WHO / OIE | Countries                    | In the past 6 months, H5N1 has affected |
|-----------------------|----------------------------------|------------------------------|---|
| Western Pacific       | 2009-04-08                       | <b>Vietnam</b>               | <b>Human, Poultry</b>                   |
|                       | 2009-03-12 <sup>#</sup>          | <b>China</b> (Hong Kong SAR) | <b>Poultry, Wild bird</b>               |
|                       | 2009-02-26                       | <b>Laos</b>                  | Poultry                                 |
|                       | 2009-02-10                       | <b>China</b> (Xinjiang)      | Human, <b>Poultry</b>                   |
|                       | 2009-02-02                       | <b>China</b> (Hunan)         | Human                                   |
|                       | 2009-01-27                       | <b>China</b> (Guangxi)       | Human                                   |
|                       | 2009-01-27                       | <b>China</b> (Guizhou)       | Human                                   |
|                       | 2009-01-19                       | <b>China</b> (Shandong)      | Human                                   |
|                       | 2009-01-19 <sup>^</sup>          | <b>China</b> (Shanxi)        | Human                                   |
|                       | 2009-01-07                       | <b>China</b> (Beijing)       | Human                                   |
|                       | 2008-12-25                       | <b>Cambodia</b>              | Human, <b>Poultry</b>                   |
|                       | 2008-12-19                       | <b>China</b> (Jiangsu)       | Poultry                                 |
| South-East Asia       | 2009-04-13                       | <b>Bangladesh</b>            | Poultry                                 |
|                       | 2009-03-30                       | <b>India</b>                 | Poultry                                 |
|                       | 2009-02-20                       | <b>Nepal</b>                 | Poultry                                 |
|                       | 2009-01-22                       | <b>Indonesia</b>             | <b>Human, Poultry</b>                   |
|                       | 2008-11-17                       | <b>Thailand</b>              | Poultry                                 |
| Eastern Mediterranean | 2009-04-17                       | <b>Egypt</b>                 | Human                                   |
| Europe                | 2009-03-10                       | <b>Germany</b>               | Poultry, <b>Wild bird</b>               |
| Africa                | --                               | --                           | --                                      |
| The Americas          | --                               | --                           | --                                      |

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

<sup>#</sup> A chicken carcass found in Tung Ping Chau was confirmed to be H5N1 positive. Source: The Agriculture, Fisheries & Conservation Department, Hong Kong.

Table 3.

**WHO confirmed human cases of H5N1 since 2003 (as of 18 April 2009)**

| Country    | Cumulative no. of cases (January to April 2009) | No. of recent cases (January to April 2009) |
|------------|---|---|
| Azerbaijan | 8   | 0   |
| Bangladesh | 1   | 0   |
| Cambodia   | 8   | 0   |
| China      | 38  | 8   |
| Djibouti   | 1   | 0   |
| Egypt      | 64  | 13  |
| Indonesia  | 141   | 2   |
| Iraq       | 3   | 0   |
| Laos       | 2   | 0   |
| Myanmar    | 1   | 0   |
| Nigeria    | 1   | 0   |
| Pakistan   | 3   | 0   |
| Thailand   | 25  | 0   |

|                |            |           |
|----------------|------------|-----------|
| Turkey         | 12         | 0         |
| Vietnam        | 110        | 4         |
| <b>Overall</b> | <b>418</b> | <b>27</b> |

Table 4.

**Details of the recent WHO confirmed human cases of H5N1 (Jan to Apr 09)**  
(as of 18 April 2009)

| Date of report by WHO | Country   | District               | Province           | Sex | Age | Outcome |
|-----------------------|-----------|------------------------|--------------------|-----|-----|---------|
| 17/04/09              | Egypt     | Kellin                 | Kfr El Sheikh      | F   | 33  | Alive   |
| 08/04/09              | Vietnam   | Chau Thanh             | Dong Thap          | M   | 3   | Fatal   |
| 08/04/09              | Egypt     | Shubra El Khema        | Qaliobia           | M   | 6   | Alive   |
| 08/04/09              | Egypt     | Kom Hamada             | El Behira          | M   | 2   | Alive   |
| 08/04/09              | Egypt     | Kom Hamada             | El Behira          | M   | 2   | Alive   |
| 30/03/09              | Egypt     | Qena                   | Qena Governorate   | F   | 2   | Alive   |
| 23/03/09              | Egypt     | Elfath                 | Assiut Governorate | F   | 38  | Alive   |
| 11/03/09              | Egypt     | Menofia                | Menofia            | F   | 1   | Alive   |
| 10/03/09              | Egypt     | Amaria                 | Alexandria         | M   | 2   | Alive   |
| 02/03/09              | Egypt     | Yousef el seddik       | Fayoum Governorate | M   | 2   | Alive   |
| 18/02/09              | Vietnam   | Kim Son                | Ninh Binh          | M   | 32  | Fatal   |
| 11/02/09              | Vietnam   | Dam Ha                 | Quang Ninh         | F   | 23  | Fatal   |
| 09/02/09              | Egypt     | Maghagha               | Menia              | M   | 1   | Alive   |
| 05/02/09              | Egypt     | Ganain                 | Suez               | M   | 2   | Alive   |
| 02/02/09              | China     | Xupu                   | Hunan              | F   | 21  | Alive   |
| 27/01/09              | China     | Beiliu                 | Guangxi            | M   | 18  | Fatal   |
| 27/01/09              | China     | Guiyang                | Guizhou            | M   | 29  | Alive   |
| 27/01/09              | China     | Urumqi                 | Xinjiang           | F   | 31  | Fatal   |
| 26/01/09              | Egypt     | Shebin Elkom           | Manofia            | F   | 2   | Alive   |
| 22/01/09              | Indonesia | Bekasi City            | West Java          | F   | 5   | Fatal   |
| 22/01/09              | Indonesia | Tangerang              | Banten             | F   | 29  | Fatal   |
| 19/01/09              | China     | Huaihua City / Guizhou | Hunan / Guizhou    | M   | 16  | Fatal   |
| 19/01/09              | China     | Jinan                  | Shandong           | F   | 27  | Fatal   |
| 19/01/09              | China     | Shanxi / Hunan         | Shanxi / Hunan     | F   | 2   | Alive   |
| 14/01/09              | Egypt     | Kerdasa                | Kerdasa            | F   | 1   | Alive   |
| 07/01/09              | Vietnam   | Ba Thuoc               | Thanh Hoa          | F   | 8   | Alive   |
| 07/01/09              | China     | Chaoyang               | Beijing            | F   | 19  | Fatal   |

**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)