

Reporting period: 14 to 20 February 2010 (Week 8)

### Summary

1. The latest case of avian influenza H5N1 in humans occurred in **Egypt** (confirmed by the World Health Organization on 17 February 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.
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 20 Feb 2010)   |                    | Confirmed human cases (deaths)   | Wild birds/<br>poultry reports                                 |
|---|--------------------|--|--|
|   |                    | Source: WHO  | Source: OIE  |
| This week   | Hong Kong          | 0 (0)  | 0  |
|   | Outside HK         | 2 (3)  | 0  |
|   | Affected countries | <b>Egypt</b>   | -  |
|   | Details            | <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 32-year-old man from Menofya Governorate. He is in a stable condition.</li> <li>• The second is a 29-year-old pregnant woman from Menofya Governorate. She has passed away.</li> </ul> <p>Both of them had close contact with sick/dead poultry. (17 Feb 2010, WHO)</p> | -  |
| Cumulative since<br>Nov. 2003   | Hong Kong          | 0  | <b>2010:</b> 1 dead bird confirmed H5N1 positive. <sup>0</sup> |
|   | Outside HK         | 478 (286)  |  |
|   | 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> |                    |  |  |

Table 1.

**WHO confirmed human cases of avian influenza A (H5N1) since 2003 by onset date of the cases (as of 20 Feb 2010) <sup>§</sup>**

|                                 | 2003 | 2004  | 2005  | 2006  | 2007  | 2008 | 2009  | 2010  | Overall |
|---------------------------------|------|-------|-------|-------|-------|------|-------|-------|---------|
| <b>Cases</b>                    | 4    | 46    | 98    | 115   | 88    | 44   | 73    | 10    | 478     |
| <b>Deaths</b>                   | 4    | 32    | 43    | 79    | 59    | 33   | 32    | 4     | 286     |
| <b>Case Fatality Rate (CFR)</b> | 100% | 69.6% | 43.9% | 68.7% | 67.0% | 75%  | 43.8% | 40.0% | 59.8%   |

<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 highly pathogenic avian influenza in the past 6 months (as of 20 Feb 2010)**

| WHO Region            | Date of last report by WHO / OIE | Countries                  | In the past 6 months, H5N1 has affected |
|-----------------------|----------------------------------|----------------------------|---|
| Western Pacific       | 2010-02-13                       | Vietnam                    | Human, Poultry                          |
|                       | 2009-08-10                       | Mongolia                   | Wild birds                              |
| South-East Asia       | 2010-02-12                       | Indonesia <sup>&amp;</sup> | Human, Poultry                          |
|                       | 2010-02-11                       | India                      | Poultry                                 |
|                       | 2010-02-05                       | Cambodia                   | Human, Poultry                          |
|                       | 2010-02-05                       | Myanmar                    | Poultry                                 |
|                       | 2010-02-05                       | Nepal                      | Poultry                                 |
|                       | 2010-01-31                       | Bangladesh                 | Poultry                                 |
|                       | 2010-01-05                       | China (Hong Kong SAR)      | Wild birds                              |
| Eastern Mediterranean | 2010-02-17                       | Egypt <sup>&amp;</sup>     | Human                                   |
|                       | 2010-01-26                       | Israel                     | Poultry                                 |
| Europe                | 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.

Table 3.

**WHO confirmed human cases of H5N1 since 2003 (as of 20 Feb 2010)**

| Country    | Cumulative no. of cases (December 2003 to February 2010) | No. of recent cases (November 2009 to February 2010) |
|------------|--|--|
| Azerbaijan | 8  | 0  |
| Bangladesh | 1  | 0  |
| Cambodia   | 9  | 1  |
| China      | 38   | 0  |
| Djibouti   | 1  | 0  |
| Egypt      | 99   | 10   |

|                |            |           |
|----------------|------------|-----------|
| 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        | 112        | 1         |
| <b>Overall</b> | <b>478</b> | <b>13</b> |

Table 4.

**Details of the recent WHO confirmed human cases of H5N1 (Nov 2009 to Feb 2010)**

(as of 20 Feb 2010)

| Date of report by WHO | Country   | District      | Province     | Sex | Age | Outcome |
|-----------------------|-----------|---------------|--------------|-----|-----|---------|
| 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   |
| 21/12/09              | Egypt     | El Tanta      | Gharbia      | F   | 21  | Alive   |
| 18/12/09              | Cambodia  | Ponhea Kreak  | Kampong Cham | M   | 57  | Alive   |
| 11/12/09              | Vietnam   | Dien Bien Phu | Dien Bien    | M   | -   | 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)