

Summary

1. The latest cases of human avian influenza H5N1 reported by the World Health Organization (WHO) included three cases in Egypt (29 March 2011) and one case in Indonesia (1 April 2011).
2. From 2005 to 2007, about 100 laboratory-confirmed cases of human avian influenza H5N1 were reported to the WHO annually. In 2008, 2009 and 2010, 44, 73 and 48 cases were confirmed respectively. In 2011 (as of 2 April), 23 human cases of avian influenza A (H5N1) were confirmed.

This week's update

| (as of Apr 2, 2011) | | Confirmed human cases (deaths) | Reports in wild birds/ poultry |
|---------------------|--------------------|--|--|
| | | Source: WHO | Source: World Organisation for Animal Health (OIE) |
| This week | Hong Kong | 0 (0) | 0 |
| | Outside HK | 4 (2) | 2 |
| | Affected countries | Egypt & Indonesia | South Korea & Vietnam |
| | Details | <p>Egypt: Three cases of avian influenza H5N1 infection were confirmed. They were:</p> <ul style="list-style-type: none"> • a 32-year-old male from Suez Governorate who had died, • a 28-year-old female from Giza Governorate who is in stable condition, and • a 4-year-old boy from Behira Governorate who has recovered. <p>All had exposure to sick and/or dead poultry. (29 Mar 2011, <i>WHO</i>)</p> <p>Indonesia: A 28-year-old female from Yogyakarta province was confirmed H5N1 positive and had died. Her family owned poultry and she visited a local traditional market on a daily basis. There were many free roaming poultry in the neighborhood and chicken deaths were reported in the previous months. (1 Apr 2011, <i>WHO</i>)</p> | <p>South Korea: Poultry in Gyeongsangbuk-Do died from avian influenza (H5N1) infection. (28 Mar 2011, <i>OIE</i>)</p> <p>Vietnam: Poultry in Binh Dinh, Hai Phong, Quang Ngai, Quang Tri, Nam Dinh and Nghe An provinces died from avian influenza (H5N1) infection. (30 Mar 2011, <i>OIE</i>)</p> |

| | | | |
|----------------------------|--------------------|-----------|--|
| Cumulative since Nov. 2003 | Hong Kong | 1 (0) | 77 dead birds confirmed H5N1 positive (Total in 2011: 7 ⁶) |
| | Outside HK | 538 (318) | |
| | Affected countries | 15 * | 63 # |

⁶ For further information, please visit the website of the Agriculture, Fisheries and Conservation Department (AFCD) : <http://www.afcd.gov.hk>

* The 15 affected countries included Azerbaijan, Bangladesh, Cambodia, China (18 provinces/cities including Anhui, Beijing, Fujian, Guangdong, Guangxi, Guizhou, Hong Kong, Hubei, Hunan, Jiangsu, Jiangxi, Liaoning, Shandong, Shanghai, Shanxi, Sichuan, Xinjiang, and Zhejiang), Djibouti, Egypt, Indonesia, Iraq, Laos, Myanmar, Nigeria, Pakistan, Thailand, Turkey and Vietnam.

For details of the OIE reported cases in poultry/wild birds, please visit: <http://www.oie.int/animal-health-in-the-world/update-on-avian-influenza/>

Table 1.

Confirmed human cases of avian influenza A (H5N1) reported to WHO since 2003 by onset date of the cases[§]

| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | Overall |
|---------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|---------|
| Cases | 4 | 46 | 98 | 115 | 88 | 44 | 73 | 48 | 23 | 539 |
| Deaths | 4 | 32 | 43 | 79 | 59 | 33 | 32 | 24 | 12 | 318 |
| Case Fatality Rate | 100% | 69.6% | 43.9% | 68.7% | 67.0% | 75.0% | 43.8% | 50.0% | 52.2% | 59.0% |

[§] 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 with confirmed highly pathogenic avian influenza cases in the past 6 months

| WHO Region | Date of last report by WHO / OIE | Countries | In the past 6 months, H5N1 infections were confirmed in |
|-----------------------|----------------------------------|------------------------------------|---|
| Western Pacific | 2011-03-30 | Vietnam | Human, Poultry |
| | 2011-03-28 | South Korea | Poultry, Wild birds |
| | 2011-03-23 | Japan | Poultry, Wild birds |
| | 2011-03-04 | China (Hong Kong) | Human, Wild birds |
| | 2011-02-25 | Cambodia | Human, Poultry |
| South-East Asia | 2011-04-01 | Indonesia ^{&} | Human, Poultry |
| | 2011-03-24 | Bangladesh | Human, Poultry |
| | 2011-03-23 | Myanmar | Poultry |
| | 2011-03-07 | India | Poultry |
| | 2010-12-05 | Nepal | Poultry |
| Eastern Mediterranean | 2011-03-29 | Egypt ^{&} | Human |
| | 2011-03-03 | Palestinian Autonomous Territories | Poultry |
| Europe | 2011-03-07 | Israel | Poultry |
| Africa | 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.

Confirmed human cases of H5N1 reported to WHO since 2003

| Country | Cumulative no. of cases (December 2003 to April 2011) | No. of recent cases (January 2011 to April 2011) |
|----------------|--|---|
| Azerbaijan | 8 | 0 |
| Bangladesh | 2 | 1 |
| Cambodia | 13 | 3 |
| China | 40 | 0 |
| Djibouti | 1 | 0 |
| Egypt | 133 | 18 |
| Indonesia | 176 | 5 |
| Iraq | 3 | 0 |
| Laos | 2 | 0 |
| Myanmar | 1 | 0 |
| Nigeria | 1 | 0 |
| Pakistan | 3 | 0 |
| Thailand | 25 | 0 |
| Turkey | 12 | 0 |
| Vietnam | 119 | 0 |
| Overall | 539 | 27 |

Table 4.

Details of the recent confirmed human cases of H5N1 reported to WHO (January 2011 to April 2011)

| Date of report by WHO | Country | District | Province | Sex | Age | Outcome |
|--------------------------|------------|--------------|------------------|-----|-----|---------|
| 01/04/2011 | Indonesia | Gunung Kidul | Yogyakarta | F | 28 | Fatal |
| 29/03/2011 | Egypt | - | Suez | M | 32 | Fatal |
| 29/03/2011 | Egypt | - | Giza | F | 28 | Alive |
| 29/03/2011 | Egypt | - | Behira | M | 4 | Alive |
| 25/03/2011 | Indonesia | Bekasi City | West Java | F | 2 | Alive |
| 16/03/2011 | Bangladesh | - | Dhaka | F | 16m | Alive |
| 15/03/2011 | Egypt | - | Ismailia | F | 38 | Fatal |
| 14/03/2011 | Indonesia | Depok City | West Java | M | 2 | Fatal |
| 14/03/2011 | Indonesia | Bekasi City | West Java | F | 31 | Fatal |
| 10/03/2011 | Egypt | - | Dakahlia | F | 17 | Fatal |
| 10/03/2011 | Egypt | - | Behira | F | 17 | Alive |
| 07/03/2011 | Egypt | - | Kafr Elsheikh | M | 2 | Alive |
| 07/03/2011 | Egypt | - | Sharkia | F | 32 | Fatal |
| 02/03/2011 | Indonesia | Karawang | West Java | F | 26 | Fatal |
| 28/02/2011 | Egypt | - | Dakahlia | F | 26 | Alive |
| 28/02/2011 | Egypt | - | Menofia | M | 45 | Fatal |
| 28/02/2011 | Egypt | - | Damiata | M | 4 | Alive |
| 25/02/2011 | Cambodia | - | Banteay Meanchey | F | 19 | Fatal |
| 25/02/2011 | Cambodia | - | Banteay Meanchey | M | 11m | Fatal |
| 09/02/2011 | Cambodia | - | Phnom Penh | F | 5 | Fatal |
| 02/02/2011 | Egypt | - | Gharbia | M | 7 | Alive |
| 20/01/2011 | Egypt | - | Alexandria | M | 1 | Alive |
| 13/01/2011 | Egypt | - | Giza | M | 10 | Alive |
| 05/01/2011 | Egypt | - | Sharkia | F | 56 | Alive |

| | | | | | | |
|------------|-------|---|----------|---|----|-------|
| 05/01/2011 | Egypt | - | Qena | F | 25 | Fatal |
| 05/01/2011 | Egypt | - | Ismailia | M | 27 | Alive |
| 05/01/2011 | Egypt | - | Dakahlia | M | 40 | Fatal |

Avian Influenza Report is a weekly report produced by the Respiratory Disease Office of the Centre for Health Protection when the alert response level under the Government's Preparedness Plan for Influenza Pandemic in Hong Kong has been activated. 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)