Human infection with avian influenza A(H5N1) virus

During the reporting period 10 to 17 January 2014, there was no case of human infection with avian influenza A (H5N1) virus reported in the Western Pacific Region.

Regarding the previously reported case of human infection with avian influenza A(H5N1) in Canada with onset 27 December 2013, responses have been undertaken with no further cases being reported to date. Further clinical and laboratory information has been shared at: http://www.promedmail.org/direct.php?id=20140112.2167282.

Since 2003, 649 cases have been reported from 16 countries worldwide, of which 385 were fatal (CFR 59.3%). Since 2003, 219 cases have been reported from 4 countries in the Western Pacific Region, of which 127 were fatal (CFR 58.0%). Among the countries in the Western Pacific Region with more than 10 reported cases, Cambodia had the highest CFR of 70.2% (33 out of 47).

Table 1: Cumulative Number of Confirmed Human Cases (C) and Deaths (D) of Avian Influenza A(H5N1) virus infection reported to WHO (1 January 2003 to 10 January 2014), Western Pacific Region.

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<td>C</td>
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<td>D</td>
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<td>D</td>
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<td>D</td>
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<tr>
<td>Cambodia</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>0</td>
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<td>China</td>
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<td>5</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>7</td>
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<tr>
<td>Lao PDR</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Viet Nam</td>
<td>3</td>
<td>3</td>
<td>29</td>
<td>20</td>
<td>61</td>
<td>19</td>
<td>0</td>
<td>0</td>
<td>8</td>
<td>5</td>
<td>6</td>
<td>5</td>
<td>5</td>
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<tr>
<td>Total</td>
<td>4</td>
<td>4</td>
<td>29</td>
<td>20</td>
<td>73</td>
<td>28</td>
<td>15</td>
<td>10</td>
<td>16</td>
<td>11</td>
<td>11</td>
<td>9</td>
<td>13</td>
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</table>

Total number of cases includes number of deaths. WHO reports only laboratory-confirmed case. For global cumulative number of confirmed human cases and deaths of Avian Influenza A(H5N1) virus infection reported to WHO, see: http://www.who.int/influenza/human_animal_interface/H5N1_cumulative_table_archives/en/index.html.

For further information on the latest global avian influenza A(H5N1) situation and WHO monthly risk assessment:

**Human infection with avian influenza A(H7N9) virus**

During the reporting period 10 to 17 January 2014, 31 cases (3 deaths) of human infection with avian influenza A (H7N9) virus were reported from China in the Western Pacific Region. Among the 31 cases, the median age was 48 years, ranging from 20-79 years, with a male to female ratio of 2.1:1. See the Annex for detailed information for each case.

<table>
<thead>
<tr>
<th>Province/Municipality</th>
<th>No. of Cases (deaths)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fujian</td>
<td>4 (1)</td>
</tr>
<tr>
<td>Guangdong</td>
<td>10 (0)</td>
</tr>
<tr>
<td>Guizhou</td>
<td>1 (1)</td>
</tr>
<tr>
<td>Jiangsu</td>
<td>1 (0)</td>
</tr>
<tr>
<td>Shanghai</td>
<td>3 (0)</td>
</tr>
<tr>
<td>Zhejiang</td>
<td>12 (1)</td>
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</tbody>
</table>

**Other relevant findings**

In addition, during the reporting period 10 to 17 January 2014, China’s Ministry of Agriculture reported the presence of A(H7N9) in birds and in the environment from Guangdong and Zhejiang Provinces in December 2013.

- Zhejiang Province (4 sampling sites); 7 serological specimens out of 85 sampled tested positive (8.24%) and 18 pathological specimens out of 200 sampled tested positive (9.00%). The pathological specimens were from Sanliting Agriculture Products Market (6 oral/cloacal swabs, 2 environmental faecal swabs); Central Agriculture Products Market (2 oral/cloacal swabs, 1 environmental faecal swab); Fenghuangshan Agriculture Products Market (1 oral/cloacal swab); and Guoqing Poultry Wholesale Market (3 oral/cloacal swabs, 3 environmental faecal swabs).

- Guangdong Province (151 sampling sites); 0 serological specimens out of 2 192 sampled tested positive (0.00%) and 2 pathological specimens out of 2 521 sampled tested positive (0.08%). The pathological specimens were from: Muai Agriculture Products Market (1 oral/cloacal swab); and Yuhuan Agriculture Products Market (1 oral/cloacal swab).

Meanwhile Jiangxi Province (pathological specimens); Tianjin City, Hebei and Henan Provinces (serological specimens); Liaoning, Jilin, Heilongjiang, Jiangsu, Fujian, Shandong, Hubei, Hunan,
Guangxi, Yunnan, Qinghai, Xinjiang Provinces and Chongqing and Shanghai Cities (both specimens) tested negative.

http://www.syj.moa.gov.cn/dwyqdt/jczt/201401/t20140114_3738212.htm
http://www.syj.moa.gov.cn/dwyqdt/jczt/201401/t20140114_3738521.htm
pFullEventReport&reportid=14649
http://www.gzwst.gov.cn/front/web/showDetail/5767

There was another report of confirmed presence of A(H7N9) in environmental samples from Guangdong Province.
Guangzhou City CDC detected A(H7N9) virus nucleic acid on 7 January 2013, in 3 out of 17 samples collected from the kitchen of a restaurant in Haizhu District, Guangzhou City, from the chopping board and sewage water. A human A(H7N9) case reported on 6 January (male, 47 years old) had delivered live poultry to the restaurant.
Meanwhile, Guangdong Provinical CDC detected A(H7N9) virus nucleic acid in 8 out of 34 environmental monitoring samples collected from the Longbei Market, Jinping District, Shantou City.

http://www.gzcdc.org.cn/news/monitor/201401/content_1470.htm

Ningbo City in Zhejiang Province has temporarily suspended the transfer of commercial live birds from outside into the city and Shanghai City will suspend live bird trade all over the City from 31 January 2014 to 30 April 2014. During the suspension period, all live poultry from other provinces are not allowed to come in to the City and trade, except for the transport to the City's live poultry slaughterhouse for centralized slaughter.

http://www.gdwst.gov.cn/a/zxwx/

To date, there has been no evidence of sustained human-to-human transmission. It is expected that there may be further sporadic cases of human infection with the virus. Affected provinces and municipalities continue to maintain surveillance and response activities.

WHO does not advise special screening at points of entry with regard to this event, nor does it recommend any travel restrictions be applied. WHO continues to work closely with national authorities and technical partners to gain a better understanding of this disease in humans and will continue to provide updated information as the situation evolves.

For more information on human infection with avian influenza A(H7N9) virus, visit:
Latest information on seasonal influenza

For latest information on the regional seasonal influenza situation:

For latest information on the global seasonal influenza situation:

- Epidemiology: http://www.who.int/influenza/surveillance_monitoring/updates/latest_update_GIP_surveillance/
- Virology: http://www.who.int/influenza/gisrs_laboratory/updates/summaryreport

Outbreaks in animals with avian influenza viruses with potential public health impact

During the reporting period 10 to 17 January 2014, an outbreak of A(H5N1) highly pathogenic avian influenza (HPAI) was reported in a farm in Wanjia Village, Paishi, Huangshi, Hubei Province. The outbreak started in January 2013, with a total of 6 700 poultry affected, out of 50 000 susceptible birds; 3 200 birds died; the remaining population was destroyed.

Another outbreak of A(H5N1) HPAI was reported in a farm in Bac Ninh Province, Viet Nam. Between 8 to 9 January 2014, four outbreaks of A(H5N1) HPAI were reported in poultry in Bac Ninh Province. A total of 3 895 poultry were affected out of a susceptible population of 9 787; 2 600 died and the remaining population was destroyed.

For more information on avian influenza viruses in animals with potential public health impact:

- OFFLU: http://www.offlu.net/index.htm
- EMPRES/FAO-GLEWS : http://empres-i.fao.org/empres-i/home
Annex

During the reporting period 10 to 17 January 2014, 31 cases (3 deaths) of human infection with avian influenza A (H7N9) virus were reported from China in the Western Pacific Region:

- 54 year old man from Nanjing City in Jiangsu Province who became ill on 28 December 2013 and was admitted to the hospital on 5 January. He is currently in serious condition.
- 79 year old female farmer from Jiaxing City of Zhejiang Province who became ill on 2 January and was admitted to the hospital on 5 January. She is currently in critical condition. The patient had exposure to poultry.
- 30 year old man from Ningbo City of Zhejiang Province who became ill on 2 January and was admitted to the hospital on 7 January. He is currently in critical condition. The patient had exposure to poultry.
- 59 year old woman from Foshan City of Guangdong Province who became ill on 29 December 2013 and was admitted to the hospital on 2 January. She is currently in mild condition.
- 42 year old woman from Foshan City of Guangdong Province who became ill on 5 January and was admitted to the hospital on 9 January. She is currently in mild condition. The patient works in the poultry wholesale industry.
- 38 year old man from Quanzhou City of Fujian Province who became ill on 3 January and was admitted to the hospital on 8 January. The patient had an underlying illness (including tuberculosis and pneumoconiosis) and died on 10 January.
- 58 year old woman from Shanghai who became ill on 1 January and was admitted to hospital on 8 January. She is currently in a critical condition. The patient had a history of exposure to poultry.
- 56 year old man from Shanghai who became ill on 6 January and was admitted to hospital on 9 January. He is currently in a critical condition. The patient had a history of exposure to poultry.
- 75 year old woman from Zhuji City, Zhejiang Province who became ill on 1 January, was admitted to hospital on 5 January, and died on 9 January. The patient had a history of exposure to poultry.
- 29 year old man from Guangzhou City, Guangdong Province who became ill on 3 January and was admitted to hospital on 9 January. He is currently in a critical condition. The patient works near to a poultry market.
- 76 year old man from Shenzhen City, Guangdong Province who became ill on 3 January and was admitted to hospital on 9 January. He is currently in a stable condition. The patient had no history of exposure to poultry.
- 34 year old man from Ningbo City, Zhejiang Province who became ill on 1 January and was admitted to hospital on 10 January. He is currently in a serious condition. The patient has a history of exposure to poultry.
- 78 year old man from Yiwu City, Zhejiang Province who became ill on 3 January and was admitted to hospital later that day and later transferred to another hospital on 9 January. He is currently in a critical condition. The patient has a history of exposure to poultry.
• 59 year old woman from Ningbo City, Zhejiang Province who became ill on 5 January and was admitted to hospital on 9 January 2014. She is currently in a serious condition. The patient has a history of exposure to poultry.
• 46 year old man from Foshan City, Guangdong Province who became ill on 6 January and was admitted to hospital on 9 January. He is currently in a critical condition. The patient has a history of exposure to poultry.
• 41 year old woman from Ningbo City, Zhejiang Province who became ill on 7 January 2014 and was admitted to hospital on 11 January. She is currently in a serious condition. The patient has a history of exposure to poultry.
• 28 year old woman from Foshan City, Guangdong Province who became ill on 8 January and was admitted to hospital on 12 January. She has a mild illness. The patient is employed in the poultry sales industry.
• 29 year old man from Hangzhou City, Zhejiang Province, who became ill on 2 January and was admitted to hospital on 12 January. He is currently in a serious condition.
• 58 year old man from Hangzhou City, Zhejiang Province, who became ill on 6 January and was admitted to hospital on 12 January. He is currently in a critical condition. The patient has a history of exposure to poultry.
• 50 year old man from Jinjiang City, Fujian Province, who became ill on 5 January and was admitted to hospital on 11 January. He is currently in a critical condition. The patient has a history of exposure to poultry.
• 35 year old man from Shanghai, who became ill on 1 January and was admitted to hospital on 12 January. He is currently in critical condition. The patient has a history of exposure to live poultry.
• 41 year old male farmer from Hangzhou city, Zhejiang province, who became ill on 5 January and was admitted to hospital on 9 January. He is currently in critical condition.
• 48 year old man from Foshan city, Guangdong province, who became ill on 2 January and was admitted to hospital on 12 January. He is currently in critical condition.
• 55 year old man from Dongguan city, Guangdong province, who became ill on 1 January and was admitted to hospital on 9 January. He is currently in critical condition. The patient has a history of exposure to live poultry.
• 20 year old female farmer from Hangzhou city, Zhejiang province, who became ill on 7 January and was admitted to hospital on 11 January. She is currently in critical condition. The patient has a history of exposure to poultry.
• 58 year old man farmer from Taizhou city, Zhejiang province, who became ill on 7 January and was admitted to hospital on 14 January. He is currently in critical condition. The patient has a history of exposure to poultry.
• 30 year old man from Quanzhou city, Fujian province, who became ill on 9 January and was admitted to hospital on 14 January. He is currently in critical condition.
• 60 year old man from Quanzhou city, Fujian province, who became ill on 10 January and was admitted to hospital on 13 January. He is currently in serious condition. The patient has a history of exposure to live poultry market.

• 59 year old man from Guangzhou city, Guangdong province, who became ill on 6 January and was admitted to hospital on 13 January. He is currently in serious condition.

• 76 year old woman from Foshan city, Guangdong province, who became ill on 12 January and was admitted to hospital on 12 January. She is currently in critical condition.

• 38 year old man from Guizhou province. He worked in Wenzhou city, Zhejiang province and fell ill when he worked in Zhejiang. He was admitted to hospital in Guizhou on 8 January 2014. He died on 9 January 2014.