

# Avian Influenza Report



*Avian Influenza Report* is a weekly report produced by the Respiratory Disease Office, Centre for Health Protection of the Department of Health. This report highlights global avian influenza activity in humans and birds.

**VOLUME 13, NUMBER 14**

Reporting period: April 2, 2017 – April 8, 2017 (Week 14)

(Published on April 11, 2017)

## Summary

1. Since the previous issue of Avian Influenza Report (AIR), there were 15 new human cases of avian influenza A(H7N9) reported by Mainland China health authorities in Beijing (3 cases), Hunan (2 cases), Jiangsu (2 cases), Chongqing (1 case), Fujian (1 case), Gansu (1 case), Guizhou (1 case), Henan (1 case), Shandong (1 case), Tibet (1 case) and Zhejiang (1 case). Since March 2013 (as of April 8, 2017), there were a total of 1379 human cases of avian influenza A(H7N9) reported globally. Since October 2016 (as of April 8, 2017), 573 cases have been recorded in Mainland China.
2. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N6). Since 2014 (as of April 8, 2017), 16 human cases of avian influenza A(H5N6) were reported globally and all occurred in Mainland China. The latest case was reported on December 1, 2016.
3. Since the previous issue of AIR, there were no new human cases of avian influenza A(H5N1). From 2011 to 2016, 10 to 145 confirmed human cases of avian influenza A(H5N1) were reported to the World Health Organization (WHO) annually (according to onset date). In 2017, there have been so far two cases in Egypt.\*

\* Since November 21, 2012, WHO only publishes information on human cases with avian influenza A(H5N1) infection in "[Influenza at human - animal interface: Monthly Risk Assessment Summary](#)". Only cases of human infection with H5N1 involved in events that are unusual or associated with potential increased risks will be reported in Disease Outbreak News. The latest [report](#) was published in March, 2017.

## This week's highlights

(Sources: WHO, National Health and Family Planning Commission (NHFPC), Mainland health authorities, Ministry of Agriculture of the People's Republic of China, Centre for Health Protection (CHP) and World Organisation for Animal Health (OIE))

**Table 1. Hong Kong: Confirmed human cases of avian influenza A(H5) / avian influenza A(H7N9)**

|                                 | No. of H5 cases<br>(No. of deaths) | No. of H7N9 cases<br>(No. of deaths) | Details |
|---------------------------------|------------------------------------|--------------------------------------|---------|
| <b>In this reporting period</b> | 0(0)                               | 0(0)                                 | -       |

**Table 2. Outside Hong Kong: Confirmed cases of human infection with avian influenza A(H7N9)**

### **New cases in Mainland China since previous issue of AIR**

| Province / Region / Municipality | City / District / Area                      | Age (years) | Sex | Clinical condition at time of reporting | Date of report |
|----------------------------------|---|-------------|-----|---|----------------|
| Fujian                           | Fuzhou                                      | 70          | M   | Fatal                                   | 07/04/2017     |
| Beijing                          | Imported from Hebei                         | 59          | M   | Severe pneumonia                        | 07/04/2017     |
| Hunan                            | Loudi                                       | 65          | F   | Pneumonia                               | 07/04/2017     |
| Henan                            | Pingdingshan                                | 45          | F   | Severe pneumonia                        | 07/04/2017     |
| Zhejiang                         | Shaoxing                                    | 60          | F   | Severe pneumonia                        | 07/04/2017     |
| Chongqing                        | Chengkou                                    | 46          | M   | Severe pneumonia                        | 07/04/2017     |
| Shandong                         | Linyi                                       | 58          | M   | Pneumonia                               | 07/04/2017     |
| Tibet                            | Lhasa                                       | 41          | M   | Severe pneumonia                        | 07/04/2017     |
| Jiangsu                          | Nantong                                     | 39          | M   | Severe pneumonia                        | 07/04/2017     |
| Guizhou                          | Qiannan Buyi and Miao Autonomous Prefecture | 38          | M   | Pneumonia                               | 07/04/2017     |
| Beijing                          | Yanqing                                     | 52          | M   | Pneumonia                               | 07/04/2017     |
| Jiangsu                          | Nanjing                                     | 59          | F   | Severe pneumonia                        | 07/04/2017     |
| Beijing                          | Huairou                                     | 66          | M   | Severe pneumonia                        | 07/04/2017     |
| Hunan                            | Chenzhou                                    | 47          | M   | Pneumonia                               | 07/04/2017     |
| Gansu                            | Jiuquan                                     | 82          | M   | Serious                                 | 08/04/2017     |

**Table 3. Cumulative numbers of confirmed cases of human infection with avian influenza A(H7N9) since 2013 and since October 2016 respectively**

| Confirmed H7N9 human cases have been reported in the following countries / areas |                                  | Cumulative no. of cases since 2013<br>(1379 cases in total)<br>(as of April 8, 2017) | Cumulative no. of cases since October 2016<br>(581 cases in total)<br>(as of April 8, 2017) |
|--|----------------------------------|--|---|
| Mainland<br>China  | Zhejiang Province                | 303  | 84  |
|  | Guangdong Province               | 256  | 61  |
|  | Jiangsu Province                 | 242  | 138   |
|  | Fujian Province                  | 105  | 31  |
|  | Anhui Province                   | 91   | 55  |
|  | Hunan Province                   | 83   | 49  |
|  | Shanghai Municipality            | 57   | 6   |
|  | Jiangxi Province                 | 51   | 37  |
|  | Hubei Province                   | 28   | 26  |
|  | Guangxi Zhuang Autonomous Region | 27   | 24  |
|  | Henan Province                   | 19   | 15  |
|  | Guizhou Province                 | 17   | 15  |
|  | Shandong Province                | 16   | 7   |
|  | Beijing Municipality             | 14   | 5 <sup>&amp;</sup>  |
|  | Sichuan Province                 | 11   | 11  |
|  | Xinjiang Uygur Autonomous Region | 10   | -   |
|  | Hebei Province                   | 4  | -   |
|  | Liaoning Province                | 3  | 2   |
|  | Chongqing Municipality           | 3  | 3   |
|  | Jilin Province                   | 2  | -   |
| Tianjin Municipality   | 2                                | -  |   |
| Yunnan Province  | 2                                | 2 <sup>@</sup>   |   |
| Gansu Province   | 1                                | 1  |   |
| Tibet Autonomous Region  | 1                                | 1  |   |
| Hong Kong  |                                  | 21 <sup>*</sup>  | 5   |
| Taiwan   |                                  | 5 <sup>*</sup>   | 1   |
| Canada   |                                  | 2 <sup>*</sup>   | -   |
| Macao  |                                  | 2  | 2 <sup>#</sup>  |
| Malaysia   |                                  | 1 <sup>*</sup>   | -   |

<sup>&</sup> Cases imported from Hebei and Liaoning

<sup>@</sup> Cases imported from Jiangxi

<sup>\*</sup> All cases imported from Mainland China

<sup>#</sup> The latest case imported from Mainland China

**Table 4. Outside Hong Kong: Confirmed cases of human infection with avian influenza A(H5N6)**

|           | Place of occurrence | No. of cases (No. of deaths) | Province / Region / Municipality | City / District / Area | Age (years) | Sex | Condition at time of reporting | Date of report |
|-----------|---------------------|------------------------------|----------------------------------|------------------------|-------------|-----|--------------------------------|----------------|
| New cases | -                   | 0(0)                         | -                                | -                      | -           | -   | -                              | -              |

**Table 5. Cumulative number of confirmed cases of human infection with avian influenza A(H5N6) since 2014 and since November 2016 respectively**

| Confirmed H5N6 human cases have been reported in the following countries / areas |                                  | Cumulative no. of cases since 2014<br>(16 cases in total)<br>(as of April 8, 2017) | Cumulative no. of cases since November 2016<br>(2 cases in total)<br>(as of April 8, 2017) |
|--|----------------------------------|--|--|
| Mainland China   | Guangdong Province               | 6  | -  |
|  | Hunan Province                   | 3  | 1  |
|  | Yunnan Province                  | 2  | -  |
|  | Anhui Province                   | 1  | -  |
|  | Hubei Province                   | 1  | -  |
|  | Jiangxi Province                 | 1*   | -  |
|  | Sichuan Province                 | 1  | -  |
|  | Guangxi Zhuang Autonomous Region | 1  | 1  |

\* imported case from Guangdong

**Table 6. Outside Hong Kong: Confirmed human cases of avian influenza A(H5N1) since previous issue of AIR**

|                  | Place of occurrence | No. of cases<br>(No. of deaths) | Details |
|------------------|---------------------|---------------------------------|---------|
| <b>New cases</b> | -                   | 0(0)                            | -       |

For the cumulative no. of human cases by place, please refer to [WHO](#) website.

**Table 7. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHFPC since 2003 (by onset date) <sup>§</sup>**

|                           | 2003 | 2004  | 2005  | 2006  | 2007  | 2008  | 2009  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017 | Overall |
|---------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---------|
| <b>Cases</b>              | 4    | 46    | 98    | 115   | 88    | 44    | 73    | 48    | 62    | 32    | 39    | 52    | 145   | 10    | 2    | 858     |
| <b>Deaths</b>             | 4    | 32    | 43    | 79    | 59    | 33    | 32    | 24    | 34    | 20    | 25    | 22    | 42    | 3     | 1    | 453     |
| <b>Case fatality rate</b> | 100% | 69.6% | 43.9% | 68.7% | 67.0% | 75.0% | 43.8% | 50.0% | 54.8% | 62.5% | 64.1% | 42.3% | 29.0% | 30.0% | 50%  | 52.8%   |

<sup>§</sup> Further breakdown by countries is available at [WHO](#) website

**Table 8. Confirmed human cases of avian influenza A(H5N1) reported to WHO / NHFPC since 2003 (by date of reporting)**

| Country        | Cumulative no. of cases<br>(December 2003 to April 2017) | No. of recent cases <sup>^</sup><br>(January 2017 to April 2017) |
|----------------|--|--|
| Azerbaijan     | 8  | 0  |
| Bangladesh     | 8  | 0  |
| Cambodia       | 56   | 0  |
| Canada         | 1  | 0  |
| Mainland China | 53   | 0  |
| Djibouti       | 1  | 0  |
| Egypt          | 358  | 2  |
| Indonesia      | 199  | 0  |
| Iraq           | 3  | 0  |
| Laos           | 2  | 0  |
| Myanmar        | 1  | 0  |
| Nigeria        | 1  | 0  |
| Pakistan       | 3  | 0  |
| Thailand       | 25   | 0  |
| Turkey         | 12   | 0  |
| Vietnam        | 127  | 0  |
| Overall        | 858  | 2  |

<sup>^</sup> Details of recent cases (January 2017 to April 2017) are listed in *Table 9*.

**Table 9. Details of the recent confirmed human cases of avian influenza A(H5N1) reported to WHO (January 2017 to April 2017) (Sources: WHO)**

| Date of report | Country | Province / Region  | District / City | Sex | Age | Outcome at the time of reporting |
|----------------|---------|--------------------|-----------------|-----|-----|----------------------------------|
| 16/03/2017     | Egypt   | Menia Governorate  | -               | M   | 4   | Recovered                        |
|                |         | Fayoum Governorate | -               | M   | 48  | Died                             |

**Table 10. Outside Hong Kong: Confirmed human cases of avian influenza A infections other than avian influenza A(H5N1 / H5N6 / H7N9) reported in the past 6 months**

|   | Place of occurrence             | No. of cases<br>(No. of deaths) | Details   |
|---|---------------------------------|---------------------------------|---|
| <b>In this reporting period</b>                                   | -                               | -                               | -   |
| <b>Previously reported cases<br/>(onset in the past 6 months)</b> | <b>Mainland China</b>           | 2(0)                            | <b>Avian influenza A(H9N2):</b><br><ul style="list-style-type: none"> <li>▫ <b>Guangdong Province:</b> A 7-month-old girl with onset on December 11, 2016.</li> <li>▫ <b>Gansu Province:</b> An 11-month-old boy with onset on February 6, 2017.</li> </ul> |
|   | <b>United States of America</b> | 1(0)                            | <b>Avian influenza A(H7N2):</b><br><ul style="list-style-type: none"> <li>▫ <b>United States of America:</b> A human case reported on January 16, 2017.</li> </ul>  |

**Table 11. Hong Kong: Confirmed reports of avian influenza A(H5) or avian influenza A(H7N9) in poultry / wild birds / environmental samples since 2014**

|   | No. of reports of H5 in poultry / wild birds / environmental samples | No. of reports of H7N9 in poultry / wild birds / environmental samples | Details   |
|---|--|--|---|
| <b>In this reporting period</b>             | 1  | 0  | A dead red-whiskered bulbul found and collected near a planter in Argyle Street Playground on April 7 was suspected to be H5 positive after initial laboratory testing. Further confirmation tests are being conducted. The red-whiskered bulbul is a common resident of Hong Kong. |
| <b>Previously reported cases since 2014</b> | 8*   | 3 <sup>#</sup>   | -   |

\* [Carcass of a peregrine falcon found in Yuen Long on April 9, 2015 \(H5N6\)](#)

[Carcass of an oriental magpie robin found in Sai Kung on April 29, 2015 \(H5N6\)](#)

[Carcass of an oriental magpie robin found in Kwai Chung on November 17, 2015 \(H5N6\)](#)

[Carcass of a great egret found in Wong Tai Sin on December 31, 2015 \(H5N6\).](#)

[Chicken carcass found in Tuen Mun on February 14, 2016 \(H5N6\)](#)

[Chicken carcass found in Tai O on February 18, 2016 \(H5N6\)](#)

[Samples of faecal droppings collected at Mai Po Nature Reserve on November 25, 2016 \(H5N6\)](#)

[A sample of faecal droppings collected at Mai Po Nature Reserve on November 30, 2016 \(H5N6\)](#)

# [Samples from a batch of live chickens imported from a registered poultry farm in Shunde District of Foshan in Guangdong were tested positive for H7N9 virus on January 27, 2014.](#)

[Samples from a consignment of live chickens from a registered farm in Huicheng District of Huizhou in Guangdong were tested positive for H7N9 virus on December 30, 2014.](#)

[A sample of faecal droppings of live poultry taken from a poultry stall in Yan Oi Market in Tuen Mun was tested positive for H7N9 virus on June 5, 2016.](#)

**Table 12. Outside Hong Kong: Confirmed avian influenza A(H5) or other highly pathogenic avian influenza in poultry / wild birds / environmental samples reported in this week – number of reports for various subtypes of virus**

| Subtype of virus | No. of reports |
|------------------|----------------|
| H5N1             | 3              |
| H5N2             | 1              |
| H5N8             | 5              |

**Table 13. Outside Hong Kong: Confirmed avian influenza A(H5) or other highly pathogenic avian influenza in poultry / wild birds / environmental samples reported in this week – details of reports**

| <b>Places of occurrence</b> | <b>Details</b>  | <b>OIE Report Date</b>       |
|-----------------------------|---|------------------------------|
| France                      | Samples from poultry in Landes were tested positive for highly pathogenic avian influenza A (H5N8).   | April 4, 2017                |
| Cameroon                    | Samples from poultry in Ouest were tested positive for highly pathogenic avian influenza A (H5N1).  | April 4, 2017                |
| Austria                     | Samples from poultry and birds in Burgenland, Steiermark, Niederösterreich, Salzburg, Wien, Oberösterreich, Burgenland and Kärnten were tested positive for highly pathogenic avian influenza A (H5N8). | April 6, 2017<br>(2 reports) |
| Vietnam                     | Samples from poultry in Dak Lak were tested positive for highly pathogenic avian influenza A (H5N1).  | April 7, 2017                |
| Germany                     | Samples from birds in Bayern and Niedersachsen were tested positive for highly pathogenic avian influenza A (H5N8).   | April 7, 2017                |
| Lithuania                   | Samples from birds in Kaunas were tested positive for highly pathogenic avian influenza A (H5N8).   | April 8, 2017                |
| Taiwan                      | Samples from poultry in Yunlin, Chiayi, Changhua, Tainan, Nantou and New Taipei City were tested positive for highly pathogenic avian influenza A (H5N2).   | April 10, 2017               |
| Nigeria                     | Samples from poultry in Bauchi were tested positive for highly pathogenic avian influenza A (H5N1).   | April 10, 2017               |

For cumulative reports of avian influenza A(H5) or other highly pathogenic avian influenza in poultry / wild birds, please refer to the [OIE](#) website.

**Table 14. Countries / areas with documented human infection with avian influenza A (H7N9) or highly pathogenic avian influenza (including infections in humans/birds and relevant environmental samples) in the recent 6 months (as of April 10, 2017)**

| Country/ Area          | Human cases      |                         | Poultry cases / environmental samples |  | Wild bird cases / others |  |                   |
|------------------------|------------------|-------------------------|---------------------------------------|--|--------------------------|--|-------------------|
|                        | Subtype of virus | Date of last report     | Subtype of virus                      | Date of last report (Subtype in this report) | Subtype of virus         | Date of last report (Subtype in this report) |                   |
| Algeria                | -                | -                       | -                                     | -  | H7                       | 02/11/2016 (H7N1)                            |                   |
| Austria                | -                | -                       | H5                                    | 06/04/2017 (H5N8)                            | H5                       | 06/04/2017 (H5N8)                            |                   |
| Bangladesh             | -                | -                       | H5                                    | 21/01/2017 (H5N1)                            | H5                       | 21/01/2017 (H5N1)                            |                   |
| Belgium                | -                | -                       | -                                     | -  | H5                       | 28/03/2017 (H5N8)                            |                   |
| Bhutan                 | -                | -                       | H5                                    | 24/10/2016 (H5N1)                            | -                        | -  |                   |
| Bosnia and Herzegovina | -                | -                       | H5                                    | 13/02/2017*                                  | H5                       | 28/03/2017 (H5N8)                            |                   |
| Bulgaria               | -                | -                       | H5                                    | 24/02/2017 (H5N8)                            | H5                       | 20/02/2017*                                  |                   |
| Cambodia               | -                | -                       | H5                                    | 31/01/2017 (H5N1)                            | -                        | -  |                   |
| Cameroon               | -                | -                       | H5                                    | 04/04/2017 (H5N1)<br>14/02/2017 (H5N8)       | H5                       | 14/02/2017 (H5N8)                            |                   |
| Cote D'Ivoire          | -                | -                       | H5                                    | 03/10/2016 (H5N1)                            | -                        | -  |                   |
| Croatia                | -                | -                       | H5                                    | 16/02/2017 (H5N8)<br>17/03/2017 (H5N5)       | H5                       | 24/02/2017 (H5N8)<br>05/01/2017 (H5N5)       |                   |
| Czech Republic         | -                | -                       | H5                                    | 24/03/2017 (H5N8)                            | H5                       | 27/02/2017 (H5N8)<br>15/02/2017 (H5N5)       |                   |
| Denmark                | -                | -                       | H5                                    | 21/11/2016 (H5N8)                            | H5                       | 10/02/2017 (H5N8)                            |                   |
| Egypt                  | -                | -                       | Endemic                               | Endemic (H5N1)<br>14/03/2017 (H5N8)          | H5                       | 30/11/2016 (H5N8)                            |                   |
| Finland                | -                | -                       | -                                     | -  | H5                       | 10/02/2017 (H5N8)                            |                   |
| France                 | -                | -                       | H5                                    | 04/04/2017 (H5N8)<br>28/03/2017 (H5N1)       | H5                       | 03-/04/2017 (H5N8)                           |                   |
| Germany                | -                | -                       | H5                                    | 31/03/2017 (H5N8)<br>09/02/2017 (H5N5)       | H5                       | 07/04/2017 (H5N8)<br>24/01/2017 (H5N5)       |                   |
| Ghana                  | -                | -                       | H5                                    | 23/11/2016 (H5N1)                            | -                        | -  |                   |
| Greece                 | -                | -                       | H5                                    | 24/03/2017 (H5N8)<br>03/03/2017 (H5N6)       | H5                       | 16/02/2017 (H5N8)<br>27/01/2017 (H5N5)       |                   |
| Hong Kong              | H7N9             | 03/03/2017 <sup>†</sup> | -                                     | -  | H5                       | 08/12/2016 (H5N6)                            |                   |
| Hungary                | -                | -                       | H5                                    | 24/02/2017 (H5N8)                            | H5                       | 13/03/2017 (H5N8)                            |                   |
| India                  | -                | -                       | H5                                    | 12/01/2017 (H5N8)<br>22/02/2017 (H5N1)       | H5                       | 19/01/2017 (H5N8)<br>27/12/2016 (H5N1)       |                   |
| Indonesia              | -                | -                       | Endemic                               | Endemic                                      | -                        | -  |                   |
| Iran                   | -                | -                       | H5                                    | 13/02/2017 (H5N8)                            | H5                       | 18/12/2016 (H5N8)                            |                   |
| Ireland                | -                | -                       | -                                     | -  | H5                       | 06/03/2017 (H5N8)                            |                   |
| Israel                 | -                | -                       | H5                                    | 16/02/2017 (H5N8)                            | H5                       | 16/02/2017 (H5N8)                            |                   |
| Italy                  | -                | -                       | H5                                    | 03/04/2017 (H5N8)                            | H5                       | 13/01/2017 (H5N5)<br>24/02/2017 (H5N8)       |                   |
| Japan                  | -                | -                       | H5                                    | 23/03/2017 (H5N6)                            | H5                       | 21/11/2016 (H5N6)                            |                   |
| Kazakhstan             | -                | -                       | -                                     | -  | H5                       | 20/01/2017*                                  |                   |
| Korea                  | -                | -                       | H5                                    | 02/12/2016 (H5N6)                            | -                        | -  |                   |
| Kuwait                 | -                | -                       | H5                                    | 22/01/2017 (H5N8)                            | -                        | -  |                   |
| Laos                   | -                | -                       | H5                                    | 14/10/2016 (H5N1)                            | -                        | -  |                   |
| Lithuania              | -                | -                       | -                                     | -  | H5                       | 08/04/2017 (H5N8)                            |                   |
| Macau                  | H7N9             | 12/01/2017 <sup>#</sup> | H7                                    | 13/12/2016 (H7N9)                            | -                        | -  |                   |
| Mainland China         |                  |                         |                                       |  |                          |  |                   |
|                        | Anhui            | H7N9                    | 11/03/2017                            | -  | -                        | -  |                   |
|                        | Beijing          | H7N9                    | 01/04/2017                            | -  | -                        | -  |                   |
|                        | Chongqing        | H7N9                    | 19/03/2017                            | -  | -                        | -  |                   |
|                        | Fujian           | H7N9                    | 25/03/2017                            | -  | -                        | -  |                   |
|                        | Gansu            | H7N9                    | 08/04/2017                            | H5   | 08/10/2016 (H5N6)        | -  |                   |
|                        | Guangdong        | H7N9                    | 04/03/2017                            | H7   | 01/03/2017 (H7N9)        | -  |                   |
|                        | Guangxi          | H5N6                    | 08/11/2016                            | -  | -                        | -  |                   |
|                        |                  | H7N9                    | 31/03/2017                            | -  | -                        | -  |                   |
|                        | Guizhou          | H5N6                    | 09/11/2016                            | -  | -                        | -  |                   |
|                        |                  | H7N9                    | 01/04/2017                            | H5   | -                        | -  |                   |
|                        | Hebei            | H7N9                    | 01/02/2017 <sup>ns</sup>              | -  | -                        | -  |                   |
|                        | Henan            | H7N9                    | 15/03/2017                            | -  | -                        | -  |                   |
|                        | Hubei            | H7N9                    | 11/03/2017                            | H5   | 15/03/2017 (H5N6)        | H5   | 18/01/2017 (H5N8) |
|                        | Hunan            | H5N6                    | 18/11/2016                            | H5   | 12/01/2017 (H5N6)        | -  | -                 |
|                        |                  | H7N9                    | 04/04/2017                            | H7   | 24/03/2017 (H7N9)        | -  | -                 |



| Country/ Area            | Human cases      |                         | Poultry cases / environmental samples |   | Wild bird cases / others |   |
|--------------------------|------------------|-------------------------|---------------------------------------|---|--------------------------|---|
|                          | Subtype of virus | Date of last report     | Subtype of virus                      | Date of last report<br>(Subtype in this report)             | Subtype of virus         | Date of last report<br>(Subtype in this report) |
| Jiangsu                  | H7N9             | 01/04/2017              | -                                     | -   | -                        | -   |
| Jiangxi                  | H7N9             | 13/03/2017              | -                                     | -   | -                        | -   |
| Liaoning                 | H7N9             | 01/02/2017 <sup>®</sup> | -                                     | -   | -                        | -   |
| Shandong                 | H7N9             | 20/03/2017              | -                                     | -   | -                        | -   |
| Shanghai                 | H7N9             | 21/02/2017              | -                                     | -   | -                        | -   |
| Shanxi                   | -                | -                       | -                                     | -   | H5                       | 09/02/2017 (H5N8)                               |
| Sichuan                  | H7N9             | 16/03/2017              | H5                                    | 28/12/2016 (H5N6)   | -                        | -   |
| Tibet                    | H7N9             | 27/03/2017              | -                                     | -   | -                        | -   |
| Xinjiang                 | -                | -                       | H5                                    | 28/12/2016 (H5N6)   | -                        | -   |
| Zhejiang                 | H7N9             | 27/03/2017              | -                                     | -   | -                        | -   |
| Malaysia                 | -                | -                       | H5                                    | 27/03/2017 (H5N1)   | -                        | -   |
| Montenegro               | -                | -                       | -                                     | -   | H5                       | 22/12/2016 (H5N5)                               |
| Myanmar                  | -                | -                       | H5                                    | 07/02/2017 (H5N6)   | -                        | -   |
| Nepal                    | -                | -                       | H5                                    | 05/03/2017 (H5N1)<br>10/03/2017 (H5N8)                      | H5                       | 10/03/2017 (H5N1)                               |
| Netherlands              | -                | -                       | H5                                    | 28/12/2016 (H5N8)   | H5                       | 14/12/2016 (H5N5)<br>17/03/2017 (H5N8)          |
| Niger                    | -                | -                       | H5                                    | 21/02/2017 (H5N1)   | -                        | -   |
| Nigeria                  | -                | -                       | H5                                    | 10/04/2017 (H5N1)<br>08/02/2017 (H5N8)                      | H5                       | 17/12/2016 (H5N8)                               |
| Poland                   | -                | -                       | H5                                    | 24/03/2017 (H5N8)   | H5                       | 08/03/2017 (H5N8)<br>08/02/2017 (H5N5)          |
| Portugal                 | -                | -                       | -                                     | -   | H5                       | 31/01/2017 (H5N8)                               |
| Macedonia                | -                | -                       | H5                                    | 30/01/2017 (H5N8)   | H5                       | 03/02/2017*                                     |
| Romania                  | -                | -                       | H5                                    | 03/04/2017 (H5N8)   | H5                       | 03/04/2017 (H5N8)                               |
| Russia                   | -                | -                       | H5                                    | 15/03/2017 (H5N8)   | H5                       | 27/02/2017*                                     |
| Serbia                   | -                | -                       | H5                                    | 01/03/2017 (H5N8)   | H5                       | 01/03/2017 (H5N5)<br>01/03/2017 (H5N8)          |
| Slovakia                 | -                | -                       | H5                                    | 10/03/2017 (H5N8)   | H5                       | 28/03/2017 (H5N8)                               |
| Slovenia                 | -                | -                       | -                                     | -   | H5                       | 01/03/2017 (H5N5)<br>31/03/2017 (H5N8)          |
| Spain                    | -                | -                       | H5                                    | 03/03/2017 (H5N8)   | H5                       | 20/02/2017 (H5N8)                               |
| Sweden                   | -                | -                       | H5                                    | 03/02/2017 (H5N8)   | H5                       | 13/03/2017 (H5N8)                               |
| Switzerland              | -                | -                       | -                                     | -   | H5                       | 11/01/2017 (H5N8)                               |
| Taiwan                   | H7N9             | 05/02/2017 <sup>#</sup> | H5                                    | 10/04/2017 (H5N2)<br>17/03/2017 (H5N6)<br>27/03/2017 (H5N8) | H5                       | 05/02/2017 (H5N6)                               |
| Tunisia                  | -                | -                       | -                                     | -   | H5                       | 01/12/2016 (H5N8)                               |
| Uganda                   | -                | -                       | H5                                    | 15/01/2017*   | -                        | -   |
| Ukraine                  | -                | -                       | H5                                    | 12/01/2017 (H5N8)   | H5                       | 17/02/2017 (H5N8)                               |
| United Kingdom           | -                | -                       | H5                                    | 24/02/2017 (H5N8)   | H5                       | 13/03/2017 (H5N8)                               |
| United States of America | -                | -                       | H7                                    | 17/03/2017 (H7N9)   | H5                       | 09/01/2017 (H5N2)                               |
| Vietnam                  | -                | -                       | H5                                    | 07/04/2017 (H5N1)<br>19/03/2017 (H5N6)                      | -                        | -   |

Sources: WHO, OIE, NHFPC and other official websites <sup>#</sup> imported case from Guangdong <sup>®</sup> without further subtype information <sup>^</sup> imported case from Guangdong <sup>®</sup> case exported to Beijing