



## H5N1 highly pathogenic avian influenza: Timeline of major events

4 December 2014

### Early Events

| Date     | Events in Animals  | Events in Humans  |
|----------|--|---|
| 1996     | Highly pathogenic H5N1 virus is isolated from a farmed goose in Guangdong province, <b>China</b> .                 |   |
| 1997     | Outbreaks of highly pathogenic H5N1 are reported in poultry at farms and live animal markets in <b>Hong Kong</b> . | Human infections with avian influenza H5N1 are reported in <b>Hong Kong</b> . Altogether, 18 cases (6 fatal) are reported in the first known instance of human infection with this virus.   |
| Feb 2003 |  | 2 human cases of avian influenza H5N1 infection (1 fatal) are confirmed in a <b>China Hong Kong SAR</b> family with a recent travel history to Fujian Province, <b>China</b> . A 3 <sup>rd</sup> family member died of severe respiratory disease while in mainland China, but no samples were taken. |

### Subsequent Events

| Date                | Events in Animals  | Events in Humans   |
|---------------------|--|--|
| 25 Nov 2003         |  | A fatal human case of avian influenza H5N1 infection occurs in <b>China</b> in a 24-year-old man from Beijing and is attributed to SARS. This case is retrospectively confirmed in August of 2006 (as the 20 <sup>th</sup> human case in China). |
| 12 Dec 2003         | <b>Republic of Korea</b> first reports H5N1 in poultry. Outbreaks continue through September 2004.   |  |
| Dec 2003 – Jan 2004 | 2 tigers and 2 leopards, fed on fresh chicken carcasses, die unexpectedly at a zoo in <b>Thailand</b> . Subsequent investigation identifies a H5N1 virus similar to that circulating in poultry. This is the first report of influenza |  |

|             |   |  |
|-------------|---|--|
|             | causing disease and death in big cats.  |  |
| 8 Jan 2004  | <b>Viet Nam</b> first reports H5N1 in poultry. Outbreaks continue to be reported on a regular basis.  |  |
| 11 Jan 2004 |   | <b>Viet Nam</b> identifies H5N1 as the cause of human cases of severe respiratory disease with high fatality. Sporadic human cases are reported through mid-March.           |
| 12 Jan 2004 | <b>Japan</b> first reports H5N1 in poultry, outbreaks continue in commercial poultry through March 2004.  |  |
| 19 Jan 2004 | <b>China Hong Kong SAR</b> reports H5N1 in a dead wild bird. (This is the first report of H5N1 in birds in China Hong Kong SAR since the poultry outbreak in 1997.)   |  |
| 23 Jan 2004 | <b>Thailand</b> first reports H5N1 in poultry. By the end of January, 32 provinces (throughout the north and several in the south) report outbreaks in many types of poultry, including fighting cocks, and outbreaks continue to be reported throughout the year. The virus appears closely related to the isolates from human cases in Viet Nam. Thailand prohibits vaccination of poultry. | <b>Thailand</b> reports 2 laboratory-confirmed cases of human infection with H5N1. Sporadic human cases are reported through mid-March.                                      |
| 24 Jan 2004 | <b>Cambodia</b> first reports H5N1 in poultry.  |  |
| 27 Jan 2004 | <b>Lao PDR</b> first reports H5N1 in poultry.   |  |
| 1 Feb 2004  |   | Investigation of a family cluster of H5N1 cases, which occurred in <b>Viet Nam</b> in early January, cannot rule out the possibility of limited human-to-human transmission. |
| 2 Feb 2004  | <b>Indonesia</b> first reports H5N1 in poultry in 11 provinces. Outbreaks continue to be reported. Vaccination is allowed.  |  |
| 4 Feb 2004  | <b>China</b> first reports H5N1 in poultry. During February-March, 16 mainland provinces are affected, and approx. 9 million poultry culled. Government-subsidized vaccination initiated.   |  |
| 20 Feb 2004 | A report from <b>Thailand</b> confirms that a domestic cat  |  |

|              |  |   |
|--------------|--|---|
|              | was infected with H5N1 after eating an infected pigeon. <sup>1</sup>   |   |
| 18 Mar 2004  |  | <i>Research</i> <sup>2</sup><br>Case studies of 10 patients in Viet Nam point to close contact with infected poultry as the probable source of infection in most cases, but conclude that, in 2 family clusters, limited human-to-human transmission within the family cannot be ruled out. |
| Jun/Jul 2004 | <b>China</b> reports recurrence of H5N1 in poultry. Outbreaks continue to be reported in <b>Indonesia, Viet Nam and Thailand.</b>  |   |
| 8 Jul 2004   | <i>Research</i> <sup>3</sup><br>Research identifies the dominant Z genotype in poultry, considers possible role of wild birds in spread, and concludes that H5N1 has found a new ecological niche in poultry, but is not yet fully adapted to this host. |   |
| 13 Jul 2004  | <i>Research</i> <sup>4</sup><br>Research shows that H5N1 has become progressively more lethal for mammals and can kill wild waterfowl, long considered a disease-free natural reservoir.   |   |
| Jul 2004     |  | <i>Research</i> <sup>5</sup><br>A case report is published indicating atypical human H5N1 infection in Thailand (from March 2004), with fever and diarrhoea but no respiratory symptoms. The report suggests that the clinical spectrum of disease may be broader than previously thought.  |
| 12 Aug 2004  |  | <b>Viet Nam</b> reports 3 new human cases, all fatal (first cases since February). Dates of hospital admission are from 19 July to 8 August.  |
| 19 Aug 2004  | <b>Malaysia</b> (peninsular) first reports H5N1 in poultry. Outbreaks and positive avian surveillance samples continue to be reported through September 2004.  |   |
| 20 Aug 2004  | <i>Research</i> <sup>6</sup><br>Chinese researchers report preliminary findings of H5N1 infection in pigs. No evidence suggests that pig infections are widespread, and the finding appears to have limited epidemiological significance.                |   |
| 2 Sep        | <i>Research</i> <sup>7</sup>   |   |

|             |  |   |
|-------------|--|---|
| 2004        | Research shows that domestic cats experimentally infected with H5N1 develop severe disease and can spread infection to other cats. Prior to this research, domestic cats were considered resistant to disease from all influenza A viruses.  |   |
| 7 Sep 2004  |  | A 4 <sup>th</sup> fatal human case is reported in <b>Viet Nam</b> .         |
| 9 Sep 2004  |  | <b>Thailand</b> confirms its 3 <sup>rd</sup> fatal case of human infection. |
| 28 Sep 2004 |  | <b>Thailand</b> confirms 2 further human cases.                             |
| 4 Oct 2004  |  | <b>Thailand</b> confirms its 4 <sup>th</sup> human case.                    |
| 18 Oct 2004 | 2 healthy Hawk-Eagles smuggled from <b>Thailand</b> are seized at Brussels International Airport. HPAI H5N1 is isolated.   |   |
| 20 Oct 2004 | A 2 <sup>nd</sup> outbreak of HPAI H5N1 in zoo tigers in <b>Thailand</b> occurs. It is attributed to tigers having been fed fresh chicken carcasses and whole chickens. Altogether, 147 tigers out of a population of 441 die or are euthanized. No virus is detected in birds in zoo or local area. |   |
| 25 Oct 2004 |  | <b>Thailand</b> confirms its 5 <sup>th</sup> human case.                    |
| 29 Oct 2004 | <i>Research</i> <sup>8</sup><br>Research confirms that domestic ducks can act as silent reservoirs, excreting large quantities of highly pathogenic virus yet showing few if any signs of illness.   |   |
| 3 Nov 2004  | <b>China Hong Kong SAR</b> reports H5N1 in a dead wild bird (last report January 2004).  |   |
| Dec 2004    | Poultry outbreaks continue in <b>Indonesia, Thailand, and Viet Nam</b> and possibly also in <b>Cambodia</b> and <b>Lao PDR</b> . Reported outbreaks continue more or less continuously in Indonesia through August 2006, in Thailand through November 2005, and in Viet                              |   |

|             |  |  |
|-------------|--|--|
|             | Nam though December 2005.  |  |
| 30 Dec 2004 |  | <b>Viet Nam</b> confirms a new case.   |
| 6 Jan 2005  |  | <b>Viet Nam</b> confirms 2 further cases.  |
| 14 Jan 2005 | <b>China Hong Kong SAR</b> reports H5N1 in 1 wild bird as part of routine surveillance.  | Total number of human cases in <b>Viet Nam</b> rises to 6. Sporadic cases continue to be reported over the coming months, making Viet Nam the hardest hit country.   |
| 27 Jan 2005 |  | <i>Research</i> <sup>9</sup><br>Research concludes that a girl in Thailand probably passed the virus to at least her mother in September 2004, causing fatal disease. This is the first published account of probable secondary human transmission, resulting in severe disease, of any avian influenza virus. |
| 2 Feb 2005  |  | <b>Cambodia</b> confirms its first human case, which is fatal.   |
| 17 Feb 2005 |  | <i>Research</i> <sup>10</sup><br>Research retrospectively identifies at least one fatal atypical case in Viet Nam (from Feb 2004), presenting with diarrhoea and encephalitis, but normal chest X-rays.  |
| 29 Mar 2005 |  | <b>Cambodia</b> confirms its 2 <sup>nd</sup> human case, also fatal.   |
| 12 Apr 2005 |  | <b>Cambodia</b> confirms its 3 <sup>rd</sup> human case, also fatal.   |
| 30 Apr 2005 | Wild birds begin dying at Qinghai Lake in central <b>China</b> , where hundreds of thousands of migratory birds congregate. Altogether, 6,345 birds from different species die in the coming weeks. This is the first reported instance of any HPAI causing mass die-offs in wild birds. |  |
| 4 May 2005  |  | <b>Cambodia</b> confirms its 4 <sup>th</sup> human case, also fatal.   |
| 8 Jun 2005  | <b>China</b> reports poultry outbreak in Xinjiang Autonomous Region. Reports continue from several provinces, through February 2006.   |  |
| 26 Jun 2005 | <b>Japan</b> reports LPAI H5N2 in poultry, which continues to be detected through April 2006. Source remains unconfirmed, though one rumour suggests the strain was introduced via improperly prepared vaccine.  |  |
| 30 Jun 2005 |  | A WHO investigative team finds no evidence that H5N1 has increased its transmissibility in humans in <b>Viet</b>   |

|             |   | <b>Nam.</b>  |
|-------------|---|--|
| 6 Jul 2005  | <i>Research</i> <sup>11</sup><br>Research on viruses isolated from dead birds in Qinghai Lake suggests the outbreak was caused by a new H5N1 variant that may be more lethal to wild birds and experimentally infected mice.  |  |
| 7 Jul 2005  | The Philippines reports LPAI (likely an H9) in poultry.   |  |
| 14 Jul 2005 | <i>Research</i> <sup>12</sup><br>Research on viruses isolated from dead birds in Qinghai Lake demonstrates transmission of the virus among migratory geese and suggests that the virus may be carried along winter migratory routes.  |  |
| 15 Jul 2005 | H5N1 is detected in 3 captive Owston's palm civets that died in late June in a wildlife preserve in <b>Viet Nam</b> . This is the first reported infection of this species with the virus. The civets were not fed chicken and the source of infection remains unknown.     |  |
| 21 Jul 2005 |   | <b>Indonesia</b> confirms its first human case. Infection in 2 other family members is considered likely, but cannot be laboratory confirmed. Subsequent investigation is unable to determine the source of infection. Virus has been circulating in poultry in Indonesia since February 2004. |
| 23 Jul 2005 | <b>The Russian Federation</b> reports first outbreaks of H5N1, in poultry in the Novosibirsk region. Dead migratory birds are reported in the vicinity of outbreaks. From 23 July- 22 December 2005, a total of 62 sites in 10 regions are confirmed as HPAI H5N1-positive. |  |
| 29 Jul 2005 | <b>Kazakhstan</b> reports first H5N1 in poultry in areas adjacent to Siberia. Dead migratory birds are reported in the vicinity of outbreaks.   |  |
| 2 Aug 2005  | <b>Indonesia</b> reports H5N1 in poultry and pigs during surveillance in the region where the recent human cases lived (Tangerang district, West Java province).  |  |
| 10 Aug      | <b>China</b> reports additional   |  |

|             |   |   |
|-------------|---|---|
| 2005        | <p>outbreaks in several provinces through February 2006. Vaccination is initiated in affected regions using an H5N2 monovalent inactivated vaccine.</p> <p><b>Mongolia</b> reports deaths in 89 migratory birds at 2 lakes in Northern Mongolia. H5N1 is subsequently identified in 4 of the birds.</p> |   |
| 16 Sep 2005 |   | <b>Indonesia</b> confirms its 2 <sup>nd</sup> case.   |
| 22 Sep 2005 |   | <b>Indonesia</b> confirms its 3 <sup>rd</sup> case.   |
| 29 Sep 2005 |   | <b>Indonesia</b> confirms its 4 <sup>th</sup> case.<br><i>Research</i> <sup>13</sup><br>Research describes the clinical features of H5N1 infection and reviews recommendations for the management of cases.   |
| Oct 2005    |   | <i>Research</i> <sup>14</sup><br>Research on the evolution of human and animal viruses circulating in Asia in 2005 suggests that several amino acids located near the receptor-binding site are undergoing change, some of which may affect antigenicity or transmissibility. |
| 6 Oct 2005  | Highly pathogenic H5N1 is first reported in poultry in <b>Turkey</b> .  | <i>Research</i> <sup>15, 16</sup><br>Research describes reconstruction of the lethal 1918 pandemic virus, concludes that this virus was entirely avian, and finds some similarities with H5N1.  |
| 7 Oct 2005  | Highly pathogenic H5N1 is first reported in poultry in <b>Romania</b> . Reports continue through July 2006.   |   |
| 10 Oct 2005 |   | <b>Indonesia</b> confirms its 5 <sup>th</sup> human case.   |
| 20 Oct 2005 | <b>Taiwan, Province of China</b> , reports the detection of highly pathogenic H5N1 in a cargo of exotic songbirds smuggled from mainland China.   | <b>Thailand</b> confirms its 18 <sup>th</sup> human case (the first human case in Thailand since October 2004).   |
| 21 Oct 2005 | <b>Croatia</b> first reports H5N1 in wild birds (migratory swans). H5N1 continues to be reported in wild birds on routine surveillance, through April 2006.   |   |
| 23 Oct 2005 | The <b>United Kingdom</b> reports highly pathogenic H5N1 in an imported parrot, held in quarantine, which died 3 days earlier.  |   |
| 24 Oct 2005 |   | <b>Thailand</b> confirms its 19 <sup>th</sup> human case, and <b>Indonesia</b> confirms its 6 <sup>th</sup> and 7 <sup>th</sup> human cases.  |

|             |  |   |
|-------------|--|---|
| 9 Nov 2005  |  | <b>Viet Nam</b> confirms its 65 <sup>th</sup> human case (its first human case since July 2005).  |
| 11 Nov 2005 | <b>Kuwait</b> detects highly pathogenic H5N1 in a single migratory flamingo, marking the first report of this disease in the Gulf region.  |   |
| 17 Nov 2005 |  | <b>China</b> confirms its first 2 human cases, from Hunan and Anhui provinces (does not include the case in 2003, confirmed retrospectively).   |
| 24 Nov 2005 |  | <b>China</b> confirms its 3 <sup>rd</sup> human case, from Anhui province. Sporadic cases continue to be reported in the coming weeks.  |
| 2 Dec 2005  | <b>Ukraine</b> reports its first H5N1 outbreak in domestic birds in Crimea. Outbreaks continue to be reported through February 2006.   |   |
| 26 Dec 2005 | <b>Turkey</b> reports a new outbreak in poultry in the eastern province of Iğdir. Through April 2006, additional outbreaks are reported in primarily backyard poultry in 11 of the country's 81 provinces. Wild birds are also reported to be infected. Control measures include culling of poultry in Iraqi Kurdistan and all backyard poultry in Iran within 10 km of the Turkish border. Vaccination is prohibited. |   |
| Jan 2006    | Qinghai Lake-like H5N1 viruses are reportedly isolated from cats in Northern <b>Iraq</b> . <sup>17</sup>   | By the end of 2005, <b>Indonesia</b> has confirmed a total of 20 cases in humans.   |
| 5 Jan 2006  |  | <b>Turkey</b> confirms its first 2 human cases. Sporadic cases continue to be reported in the coming weeks, but rapidly end. Viruses are similar to those currently circulating in birds. |
| 20 Jan 2006 | <b>China Hong Kong SAR</b> reports H5N1 in a dead wild bird (first report since January 2005), and H5N1 reports in wild birds (and in 2 chickens) continue through March 2006. These viruses all belong to H5N1 genotype V, which has previously been recorded in southern China, Japan and South Korea.   |   |
| 30 Jan 2006 |  | <b>Iraq</b> confirms its first human case, in a 15-year-old girl in Sulaimaniyah (onset date 9 January 2006).   |
| 1 Feb       | <b>Iraq</b> reports its first outbreak   |   |



|             |   |  |
|-------------|---|--|
| 2006        | of H5N1, in backyard flocks in same village where human case detected.  |  |
| 3 Feb 2006  | <b>Bulgaria</b> first reports H5N1 in wild birds (swans).   |  |
| 8 Feb 2006  | <b>Nigeria</b> first reports H5N1 in poultry. This is the first report of the virus in Africa. Outbreaks in poultry and ornamental birds are reported through March 2006.   |  |
| 9 Feb 2006  | <b>Greece</b> first reports H5N1 in wild birds (swans). Additional reports in wild birds through March 2006.  |  |
| 11 Feb 2006 | <b>Italy</b> first reports H5N1 in wild birds.  |  |
| 12 Feb 2006 | <b>Slovenia</b> first reports H5N1 in a wild bird (swan). A total of 48 dead wild birds are reported through March 2006.  |  |
| 13 Feb 2006 | <b>Iran</b> first reports H5N1 in wild birds (swans) found dead on routine surveillance.<br><b>The Russian Federation</b> reports H5N1 outbreaks (at large commercial farms) in the Caucasus region, near the border with Azerbaijan. Further outbreaks are reported in backyard poultry, pigeons, and wild birds in Tyva Republic, Altaj, Tomsk, Omsk and Novosibirsk regions through July 2006. (This is the first outbreak reported in Russia since October 2005.) | <b>China</b> confirms its 12 <sup>th</sup> case and 8 <sup>th</sup> fatality. Some human cases have occurred in areas with no reported outbreaks in poultry.<br><b>Indonesia</b> confirms its 25 <sup>th</sup> case and 18 <sup>th</sup> fatality. |
| 14 Feb 2006 | <b>Germany</b> first reports H5N1 in wild birds (swans). Reports of H5N1 in wild birds on routine surveillance continue through April 2006.   |  |
| 17 Feb 2006 | <b>Egypt</b> reports its first H5N1 in domestic poultry (since 1965). Outbreaks continue to be reported through December 2006.<br><b>France</b> first reports H5N1 in a wild duck (followed by additional reports in other wild birds).   | <b>Iraq</b> confirms its 2 <sup>nd</sup> human case.   |
| 18 Feb 2006 | <b>India</b> first reports H5N1 in domestic poultry. Reported outbreaks continue through  |  |

|             |  |  |
|-------------|--|--|
|             | <p>April 2006.</p> <p><b>Austria</b> first reports H5N1 in wild birds (swans). Austria continues to find H5N1 in some wild birds on routine surveillance, until April 2006.</p>  |  |
| 19 Feb 2006 | <p><b>Malaysia</b> reports H5N1 in a flock of free-range poultry (last reported September 2004). Outbreaks are reported through March 2006.</p>  |  |
| 20 Feb 2006 | <p><b>Bosnia-Herzegovina</b> and <b>Slovakia</b> each first report H5N1 in wild birds (migratory swans).</p>   |  |
| 21 Feb 2006 | <p><b>Hungary</b> first reports H5N1 in wild birds (swans).<br/><i>Research<sup>18</sup></i></p> <p>Studies of H5N1 viruses show that multiple genetically and antigenically distinct sublineages of the virus are now established in poultry in parts of Asia. Poultry-to-poultry transmission is thought to sustain endemicity of the virus in this region. H5N1 virus is isolated from apparently healthy migratory birds in southern China, suggesting that migratory birds can carry the virus over long distances.</p> |  |
| 23 Mar 2006 | <p><b>West Bank/Gaza Strip</b> first reports H5N1 in poultry. Outbreaks are reported through April 2006.</p>   |  |
| 24 Feb 2006 | <p><b>Azerbaijan</b> first reports H5N1 in migratory birds. H5N1 is later also confirmed in poultry.</p> <p><b>Georgia</b> first reports H5N1 in wild birds (swans).</p>   |  |
| 25 Feb 2006 | <p><b>France</b> first reports H5N1 in a single turkey farm, marking the first appearance of this disease in domestic poultry in the EU. H5N1 had previously been identified in wild birds in France.</p>  |  |
| 27 Feb 2006 | <p><b>Niger</b> first reports H5N1 in domestic poultry (area near border with affected states of northern Nigeria)</p> <p><b>Pakistan</b> first reports H5N1</p>   |  |

|             |   |  |
|-------------|---|--|
|             | in poultry. Outbreaks are reported through July 2006.   |  |
| 28 Feb 2006 | <b>Germany</b> reports H5N1 infection in a dead domestic cat on the Isle of Ruegen. 2 more cats on the Island are found to be infected in March. Cats are thought to have been exposed by eating infected birds.  |  |
| 1 Mar 2006  | <b>Serbia-Montenegro</b> first reports H5N1 in wild birds (swans).<br><b>Switzerland</b> first reports H5N1 in a dead wild bird. Additional wild birds are reported positive in March and April from various locations throughout the country on routine surveillance.          |  |
| 6 Mar 2006  | <b>Poland</b> first reports H5N1 in wild birds (swans). Reports continue through May 2006.  |  |
| 7 Mar 2006  | <b>Albania</b> first reports H5N1 in poultry (chickens).<br><b>Austria</b> reports H5N1 in 3 domestic cats in an animal shelter.  |  |
| 9 Mar 2006  | <b>Germany</b> reports H5N1 infection in a stone marten on the Isle of Ruegen, marking the first documented infection of this species with an avian influenza virus.<br><b>Myanmar</b> reports H5N1 in poultry. (This is the first occurrence of the serotype H5N1 in Myanmar.) |  |
| 11 Mar 2006 | <b>Cameroon</b> first reports H5N1 in domestic ducks.   |  |
| 13 Mar 2006 | <b>Serbia-Montenegro</b> first reports H5N1 in poultry (1 rooster). H5N1 had been previously reported in wild birds.  | <b>Iraq</b> has its 3 <sup>rd</sup> human case, in a 3-year-old boy (case retrospectively confirmed in September, 2006). |
| 14 Mar 2006 | <b>Denmark</b> first reports H5N1 in a wild bird. Reports in wild birds continue through May of 2006.   | <b>Azerbaijan</b> confirms its first human cases (onset dates from mid-February 2006).                                   |
| 15 Mar 2006 | <b>Afghanistan</b> first reports H5N1 in poultry and a crow.  |  |
| 16 Mar 2006 | <b>Israel</b> first reports H5N1 in poultry.<br><b>Sweden</b> first reports H5N1 in   |  |

|             |   |  |
|-------------|---|--|
|             | 36 dead wild birds tested in February and March (no increase in overall wild bird mortality)  |  |
| 17 Mar 2006 | <b>Kazakhstan</b> reports H5N1 in wild birds (first since August 2005)<br><b>Sweden</b> first reports HPAI H5 (no N type given) in poultry in a game bird holding within the surveillance zone set up in response to detection of H5N1 in wild birds. |  |
| 20 Mar 2006 |   | <b>Egypt</b> confirms its first human case in a 30-year-old woman from Qaliyoubia governorate (onset early March 2006).  |
| 23 Mar 2006 | <b>Cambodia</b> reports its first outbreak in poultry since December 2004. Outbreaks continue to be reported through fall 2006.<br><b>Jordan</b> first reports H5N1 in poultry.   | <i>Research</i> <sup>19, 20</sup><br>2 research groups publish findings that may help explain why the H5N1 virus does not easily infect humans or – like normal seasonal influenza – spread readily by coughing or sneezing. Whereas human influenza viruses attach themselves to molecules in cells lining the nose and throat, avian viruses prefer to bind to molecules located deep in the lungs. Such findings are consistent with the clinical picture of H5N1 infection, in which most patients present with symptoms of infection in the lower respiratory tract, with rapid progression to pneumonia. |
| 27 Mar 2006 | <b>Czech Republic</b> first reports H5N1 in a wild bird (swan). Reports in wild swans continue through May 2006.<br><b>Sweden</b> detects H5N1 in a wild mink in southern Sweden in an area where wild birds cases have been detected.                |  |
| 3 Apr 2006  | <b>Burkina Faso</b> first reports H5N1 in poultry (guineafowl).   |  |
| 5 Apr 2006  | <b>Germany</b> first reports H5N1 in poultry, in turkeys on a single farm (previously reported in wild birds).  |  |
| 6 Apr 2006  | <b>United Kingdom</b> first reports H5N1 in a single wild bird (swan).  | <b>Cambodia</b> confirms its 6 <sup>th</sup> human case in a 12-year-old boy from Prey Veng province (onset date 29 March 2006) (first human case in Cambodia since April 2005).   |
| 12 Apr 2006 |   | <b>Indonesia</b> confirms its 31 <sup>st</sup> human case in a 23-year-old man from West Java province (onset date 20 March 2006).   |
| 13 Apr 2006 |   | <b>Egypt</b> confirms its 12 <sup>th</sup> human case in an 18-year-old woman from Menoufiya governorate (onset date 5 April 2006).  |
| 17 Apr      | <b>Sudan</b> first reports H5N1 in  |  |

|             |  |   |
|-------------|--|---|
| 2006        | poultry (both intensive and backyard systems). Additional outbreaks reported through October 2006.   |   |
| 19 Apr 2006 | <b>China</b> reports H5N1 in wild aquatic and other birds in Qinghai province and Tibet Autonomous Region.<br><b>Côte d'Ivoire</b> first reports H5N1 in poultry and a wild bird. Outbreaks continue to be reported through July 2006. | <b>China</b> confirms its 17 <sup>th</sup> human case in a 21-year-old man from Hubei province (onset date 1 April 2006).<br><b>Indonesia</b> confirms its 32 <sup>nd</sup> human case in a 24-year-old man from Banten province (onset date 29 March 2006).  |
| 24 Apr 2006 | <b>Djibouti</b> reports its first case of H5N1 in poultry.   |   |
| 27 Apr 2006 |  | <b>China</b> confirms its 18 <sup>th</sup> human case in an 8-year-old girl from Sichuan province (onset date 16 April 2006).   |
| 4 May 2006  | <b>Mongolia</b> reports H5N1 in dead wild birds on routine surveillance through June 2006 (last report August 2005).   | <b>Egypt</b> confirms its 13 <sup>th</sup> human case in a 27-year-old woman from Cairo governorate (onset date 15 April 2006).   |
| 8 May 2006  |  | <b>Indonesia</b> confirms its 33 <sup>rd</sup> human case in a 30-year-old man from Jakarta (onset date 17 April 2006).   |
| 9 May 2006  | <b>Ukraine</b> first reports HPAI H5 in wild birds (previously reported in poultry).   |   |
| 12 May 2006 |  | <b>Djibouti</b> confirms its first human case in a 2-year-old girl from Arta (onset date 23 April 2006).  |
| 18 May 2006 | <b>Denmark</b> reports its first outbreak of H5N1 HPAI in domestic poultry (was previously reported in wild birds). An outbreak of H5N2 LPAI was also reported during this period.   | <b>Egypt</b> confirms its 14 <sup>th</sup> case in a 75-year-old woman from Menia governorate (onset date 11 May 2006).<br><b>Indonesia</b> reports the largest family cluster in any country to date, with 7 confirmed cases (the 34 <sup>th</sup> through 39 <sup>th</sup> and the 42 <sup>nd</sup> ) from 4 households in the Karo district of North Sumatra province. The index case (unconfirmed) develops symptoms on 24 Apr; the last case dies on 22 May. Cases include the index case's 2 sons, (aged 15 and 17 years), her 10-year-old nephew, her 2 brothers (aged 25 and 32 years), her 28-year-old sister, and this sister's 18-month-old daughter. Disease does not spread beyond the extended family. Limited human-to-human transmission cannot be ruled out. Viruses do not show any significant genetic mutations or reassortment.<br><b>Indonesia</b> also confirms its 40 <sup>th</sup> human case, in a 38-year-old woman from East Java province (onset date 2 May 2006). |
| 19 May 2006 |  | <b>Indonesia</b> confirms its 41 <sup>st</sup> human case in a 12-year-old boy from East Jakarta (onset date 7 May 2006).   |
| 29 May 2006 |  | <b>Indonesia</b> confirms its 43 <sup>rd</sup> – 48 <sup>th</sup> human cases in an 18-year-old man from East Java province (onset date 6 May 2006), a 10-year-old girl and her 18-year-old brother from West Java province (both with onset date 16 May 2006), a 39-year-old man from Jakarta (onset date 9 May 2006), a 43-year-old man from Jakarta (onset date 6 May  |

|             |   |   |
|-------------|---|---|
|             |   | 2006), and a 15-year-old girl from West Sumatra province (onset date 17 May 2006). All 6 cases are unrelated to the family cluster in Karo, North Sumatra province.                                 |
| 4 Jun 2006  | <b>China</b> reports its first cases of H5N1 in poultry since February 2006. Outbreaks reported from various provinces through October 2006.  |   |
| 6 Jun 2006  |   | <b>Indonesia</b> confirms its 49 <sup>th</sup> human case in a 15-year-old boy from West Java province (onset date 26 May 2006).  |
| 9 Jun 2006  | <b>Hungary</b> reports its first H5N1 in poultry. (H5N1 was previously reported in wild birds).   |   |
| 15 Jun 2006 | <b>Ukraine</b> reports H5N1 in poultry. (This is the first report of H5N1 in poultry since February 2006. H5N1 was reported in wild birds in May 2006.)   | <b>Indonesia</b> confirms its 50 <sup>th</sup> human case in a 7-year-old girl from Banten province (onset date 26 May 2006).   |
| 16 Jun 2006 |   | <b>China</b> confirms its 19 <sup>th</sup> human case, in a 31-year-old man from Guangdong province (onset date 3 June 2006).   |
| 20 Jun 2006 |   | <b>Indonesia</b> confirms its 51 <sup>st</sup> human case in a 13-year-old boy from Jakarta (onset date 9 June 2006).   |
| 30 Jun 2006 |   | <i>Research</i> <sup>21</sup><br>The first analysis of epidemiological data on all 205 laboratory-confirmed H5N1 cases officially reported to WHO from Dec 2003 to 30 Apr 2006 is published by WHO. |
| 4 Jul 2006  |   | <b>Indonesia</b> confirms its 52 <sup>nd</sup> human case in a 5-year-old boy from East Java province (onset date 8 June 2006).   |
| 7 Jul 2006  | <b>Spain</b> first reports H5N1 in a single wild shore bird (grebe) in northern region.   |   |
| 14 Jul 2006 |   | <b>Indonesia</b> confirms its 53 <sup>rd</sup> human case in a 3-year-old girl from Jakarta (onset date 23 June 2006).  |
| 20 Jul 2006 |   | <b>Indonesia</b> confirms its 54 <sup>th</sup> human case in a 44-year-old man from Jakarta (onset date 24 June 2006).  |
| 26 Jul 2006 | <b>Thailand</b> reports 2 H5N1 outbreaks in poultry (in Phichit and Nakhon Phanom provinces). These are the first reported outbreaks in more than 8 months. Poultry vaccination remains prohibited. | <b>Thailand</b> confirms its 23 <sup>rd</sup> human case in a 17-year-old boy from Phichit in northern Thailand (onset date 15 July 2006) (the first human case in Thailand in 2006).               |
| 27 Jul 2006 | <b>Lao PDR</b> reports H5N1 in poultry. (This is the first report of H5N1 from Lao  |   |

|             |   |   |
|-------------|---|---|
|             | PDR since January 2004.)  |   |
| 3 Aug 2006  | H5N1 is detected in a captive zoo swan in <b>Germany</b> (previously reported in both wild and domestic birds).   |   |
| 7 Aug 2006  |   | <b>Thailand</b> confirms its 24 <sup>th</sup> human case in a 27-year-old man from Uthai Thani in central Thailand (onset date 24 July 2006).   |
| 8 Aug 2006  |   | <b>China</b> retrospectively confirms its 20 <sup>th</sup> human case in a 24-year-old man from Beijing (onset date 25 November 2003) who died. This case becomes the first confirmed case of HPAI H5N1 infection in the present outbreak. The case was initially attributed to SARS.<br><b>Indonesia</b> confirms its 55 <sup>th</sup> human case in a 16-year-old boy from West Java province (onset date 26 July 2006), and becomes the country with the most human deaths (n=43) from H5N1 HPAI infection, surpassing Viet Nam.<br>A system for unified H5N1 nomenclature, developed by the WHO/OIE/FAO Evolution Working Group, is posted on the WHO website ( <a href="http://www.who.int/influenza/gisrs_laboratory/h5n1_nomenclature/en/index.html">http://www.who.int/influenza/gisrs_laboratory/h5n1_nomenclature/en/index.html</a> ) and the OFFLU website ( <a href="http://www.offlu.net">www.offlu.net</a> ). |
| 9 Aug 2006  |   | <b>Indonesia</b> confirms its 56 <sup>th</sup> human case in a 17-year-old girl from Jakarta (onset date 28 July 2006).   |
| 14 Aug 2006 |   | <b>Indonesia</b> confirms its 57 <sup>th</sup> human case in a 17-year-old boy from West Java province (Cikelet/Garut Cluster) (onset date 26 July 2006).   |
| 14 Aug 2006 | The <b>USA</b> detects LPAI H5N1 in wild mute swans in Michigan.  | <b>China</b> confirms its 21 <sup>st</sup> human case in a 62-year-old man from the Uygur Autonomous Region in north-western China (onset date 19 June 2006).   |
| 17 Aug 2006 |   | <b>Indonesia</b> confirms its 58 <sup>th</sup> human case in a 9-year-old girl from West Java province (Cikelet/Garut Cluster) (onset date 1 August 2006).  |
| 21 Aug 2006 |   | <b>Indonesia</b> confirms its 59 <sup>th</sup> human case in a 35-year-old woman from West Java province (Cikelet/Garut Cluster) (onset date 8 August 2006). In this cluster, there was no evidence of human-to-human transmission, poultry deaths were possibly linked with live chickens returning to village from live animal market, and there were possible additional human cases that were not confirmed.  |
| 23 Aug 2006 |   | <b>Indonesia</b> confirms its 60 <sup>th</sup> human case in a 6-year-old girl from West Java province (onset date 6 August 2006).  |
| 29 Aug 2006 | <b>Viet Nam</b> reports H5N1 in unvaccinated duck flocks and market ducks on routine surveillance. Ducks did not show clinical signs. (This is the first report of H5N1 in Viet Nam since December 2005.) |   |

|             |  |   |
|-------------|--|---|
| 2 Sep 2006  | The <b>USA</b> detects LPAI H5N1 in wild ducks in Pennsylvania and Maryland.   |   |
| 8 Sep 2006  |  | <b>Indonesia</b> confirms its 61 <sup>st</sup> human case in a 14-year-old girl from South Sulawesi province (onset date 18 June 2006).<br>Due to revisions to the WHO case definition, 2 cases are retrospectively confirmed in <b>Indonesia</b> : The 62 <sup>nd</sup> in an 8-year-old girl from Banten province (onset date 24 June 2005) and the 63 <sup>rd</sup> in a 45-year-old man from Central Java province (onset date 25 November 2005). |
| 14 Sep 2006 |  | <b>Indonesia</b> confirms its 64 <sup>th</sup> human case in a 5-year-old boy from West Java province (onset date 4 March 2006) and (through follow up testing) its 65 <sup>th</sup> human case in a 27-year-old male from West Sumatra province (onset date 28 May 2006) (brother of 15-year-old girl; was possible human-to-human transmission).  |
| 25 Sep 2006 |  | <b>Indonesia</b> confirms its 66 <sup>th</sup> human case in an 11-year-old boy from East Java province (onset date 16 September 2006) and its 67 <sup>th</sup> human case in a 9-year-old boy from Jakarta (onset date 13 September 2006).   |
| 27 Sep 2006 |  | <b>Indonesia</b> confirms its 68 <sup>th</sup> human case in a 20-year-old man from West Java province (onset date 17 September 2006).  |
| 27 Sep 2006 |  | <b>Thailand</b> confirms its 25 <sup>th</sup> human case, in a 59-year-old man from Nong Bua Lam Phu Province in Northeastern Thailand (onset date 14 July 2006).   |
| 3 Oct 2006  |  | <b>Indonesia</b> confirms its 69 <sup>th</sup> human case in a 21-year-old woman from East Java province (onset date 19 September 2006). This case is the sister of the 66 <sup>th</sup> case.  |
| 11 Oct 2006 |  | <b>Egypt</b> confirms its 15 <sup>th</sup> human case, in a 39-year-old woman from Gharbia governorate (onset date 30 September 2006). (This is the first human case reported from Egypt since May 2006).   |
| 16 Oct 2006 |  | <b>Indonesia</b> confirms its 70 <sup>th</sup> human case in a 67-year-old woman from West Java province (onset date 3 October 2006), its 71 <sup>st</sup> human case in an 11-year-old boy from Jakarta (onset date 2 October 2006), and its 72 <sup>nd</sup> human case in a 27-year-old woman from Central Java province (onset date 8 October 2006).  |
| 30 Oct 2006 | <i>Research</i> <sup>22</sup><br>A surveillance study of H5N1 isolates from poultry in southern China confirms that subtypes continue to emerge and their relative prevalence continues to change. |   |
| 13 Nov 2006 |  | <b>Indonesia</b> confirms its 73 <sup>rd</sup> human case in a 35-year-old woman from Banten province (onset date 7 November 2006) and its 74 <sup>th</sup> human case, in a 30-month-old boy from West Java province (onset date 10 November 2006).  |
| 22 Nov 2006 | <b>Republic of Korea</b> reports H5N1 in poultry (first since  |   |



|             |  |   |
|-------------|--|---|
|             | September 2004). Outbreaks continue to be reported.  |   |
| 10 Dec 2006 |  | <b>China</b> confirms its 22 <sup>nd</sup> human case in a 37-year-old man from Anhui province (onset date 10 December 2006). This case is retrospectively confirmed on 10 January 2007.  |
| 14 Dec 2006 | In an effort to contain the disease, live animal markets in Beijing, <b>China</b> are permanently closed.  |   |
| 19 Dec 2006 | <b>Viet Nam</b> reports H5N1 in unvaccinated poultry. (This is the first report of H5N1 in Viet Nam since August 2006.) Outbreaks become widespread in the southern part of the country. |   |
| 27 Dec 2006 |  | <b>Egypt</b> confirms its 16 <sup>th</sup> , 17 <sup>th</sup> , and 18 <sup>th</sup> human cases in an extended family in Gharbia governorate (onset dates 9-15 December 2006). The isolated viruses had a genetic mutation, linked in laboratory testing to moderately reduced susceptibility to oseltamivir. WHO does not change treatment recommendations. |
| 8 Jan 2007  |  | <b>Indonesia</b> confirms its 75 <sup>th</sup> human case, in a 14-year-old boy from West Jakarta (onset date 31 December 2006).  |
| 9 Jan 2007  |  | <b>Indonesia</b> confirms its 76 <sup>th</sup> human case, in a 37-year-old woman from Banten province (onset date 1 January 2007).   |
| 12 Jan 2007 |  | <b>Indonesia</b> confirms its 77 <sup>th</sup> human case, in a 22-year-old woman from Banten province (onset date 3 January 2007).   |
| 13 Jan 2007 | <b>Japan</b> reports H5N1 in poultry (first since March 2004).   |   |
| 15 Jan 2007 | <b>China Hong Kong SAR</b> reports H5N1 in dead wild birds. (This is the first since January 2006).  | <b>Indonesia</b> confirms its 78 <sup>th</sup> human case, in a 27-year-old woman from South Jakarta (onset date 6 January 2007) and its 79 <sup>th</sup> human case, in an 18-year-old boy from Banten province (onset date 10 January 2007) (son of the 76 <sup>th</sup> case).   |
| 16 Jan 2007 | <b>Thailand</b> reports H5N1 in poultry during routine intensive surveillance (first since July 2006). Vaccination remains prohibited.   |   |
| 17 Jan 2007 | <b>Viet Nam</b> reports continued H5N1 infections in farmed and village poultry.   |   |
| 22 Jan 2007 |  | <b>Egypt</b> confirms its 19 <sup>th</sup> human case, in a 27-year-old woman from Beni Suef governorate (onset date 9 January 2007).   |
| 22 Jan 2007 |  | <b>Indonesia</b> confirms its 80 <sup>th</sup> human case, in a 32-year-old woman from West Java province (onset date 8 January 2007).  |

|             |   |   |
|-------------|---|---|
| 24 Jan 2007 | <b>Hungary</b> reports H5N1 in poultry (first since June 2006).   |   |
| 25 Jan 2007 |   | <b>Indonesia</b> confirms its 81 <sup>st</sup> human case, in a 6-year-old girl from Central Java province (onset date 8 January 2007).   |
| 26 Jan 2007 | <b>The Russian Federation</b> reports H5N1 in poultry. (This is the first report of H5N1 in the Russian Federation since July 2006.)                                    |   |
| 27 Jan 2007 | The <b>United Kingdom</b> reports H5N1 on a commercial turkey farm (first ever report in poultry, reported in wild birds in April 2006). Only a single outbreak occurs. |   |
| 28 Jan 2007 | In an effort to curb virus spread, <b>Indonesia</b> institutes a poultry ban for the entire island of Java, and bans backyard poultry in 9 provinces.                   |   |
| 31 Jan 2007 |   | <b>Nigeria</b> confirms its first human case, in a 22-year-old woman from Lagos (onset date 8 January 2007).  |
| 1 Feb 2007  | <b>Pakistan</b> reports H5N1 in poultry (first since July 2006).  |   |
| 6 Feb 2007  |   | <b>Egypt</b> confirms its 20 <sup>th</sup> human case, in a 17-year-old girl from Fayoum governorate (onset date 25 January 2007).  |
| 9 Feb 2007  |   | <i>Research</i> <sup>23</sup><br>The second WHO analysis of epidemiological data on WHO-confirmed human cases of avian influenza A (H5N1) infection, 25 November 2003 – 24 November 2006 is published by WHO. |
| 9 Feb 2007  | <b>Turkey</b> reports H5N1 in backyard poultry. (This is the first report of H5N1 in Turkey since April 2006.)  |   |
| 15 Feb 2007 |   | <b>Egypt</b> confirms its 21 <sup>st</sup> human case, in a 37-year-old woman from Fayoum governorate (onset date 10 February 2007).  |
| 19 Feb 2007 |   | <b>Egypt</b> confirms its 22 <sup>nd</sup> human case, in a 5-year-old boy from Sharkia governorate (onset date 14 February 2007).  |
| 20 Feb 2007 | Ongoing H5N1 outbreaks in poultry in several states of <b>Nigeria</b> are published by FAO. <sup>24</sup>   |   |
| 19 Feb 2007 | <b>Lao PDR</b> reports H5N1 in poultry. (This is the first report of H5N1 in Lao PDR since July 2006.)  |   |
| 22 Feb 2007 | <b>Afghanistan</b> reports H5N1 in backyard poultry and farms. (This is the first report of H5N1 in Afghanistan since March 2006.)                                      |   |

|             |  |  |
|-------------|--|--|
| 26 Feb 2007 | <b>Kuwait</b> reports H5N1 in poultry in backyards, on farms, and in a zoo. (This is the first report of H5N1 in Kuwait in birds since November 2005, and the first ever report in poultry.) | <b>Lao PDR</b> confirms its first human case, in a 15-year-old girl from Vientiane (onset date 10 February 2007).  |
| 28 Feb 2007 | <b>Myanmar</b> reports H5N1 in poultry. (This is the first report of H5N1 in Myanmar since April 2006.)  | <b>Egypt</b> confirms its 23 <sup>rd</sup> human case, in a 4-year-old girl from Dakahlia governorate (onset date 25 February 2007).<br><b>China</b> confirms its 23 <sup>rd</sup> human case, in a 44-year-old woman from Fujian province (onset date 18 February 2007).  |
| 6 Mar 2007  | <b>China</b> reports H5N1 in poultry. (This is the first report of H5N1 in China since September 2006.)  |  |
| 12 Mar 2007 |  | <b>Egypt</b> confirms its 24 <sup>th</sup> human case, in a 4-year-old boy from Dakahlia governorate (onset date 7 March 2007).  |
| 16 Mar 2007 |  | <b>Lao PDR</b> confirms its second human case, in a 42-year-old woman from Vientiane Province (onset date 26 February 2007).   |
| 19 Mar 2007 |  | <b>Egypt</b> confirms its 25 <sup>th</sup> human case, in a 10-year-old girl from Aswan governorate (onset date 13 March 2007).  |
| 20 Mar 2007 |  | <b>Egypt</b> confirms its 26 <sup>th</sup> human case, in a 2-year-old boy from Aswan governorate (onset date 15 March 2007).<br><b>China</b> confirms avian influenza H9N2 infection in a 9-month-old girl with mild signs of disease.  |
| 26 Mar 2007 |  | <b>Egypt</b> confirms its 27 <sup>th</sup> human case, in a 3-year-old girl from Aswan governorate (onset date 22 March 2007).<br>No epidemiological link is evident among the 3 recent cases from Aswan.  |
| 27 Mar 2007 |  | During high level talks in Jakarta, <b>Indonesia</b> announces that it will resume sharing H5N1 AI virus with the international community.   |
| 28 Mar 2007 |  | <b>Egypt</b> confirms its 28 <sup>th</sup> human case, in a 6-year-old girl from Qena governorate, and its 29 <sup>th</sup> human case, in a 5-year-old boy from Menia governorate. (Both had onset dates 26 March 2007)   |
| 29 Mar 2007 |  | <b>China</b> confirms its 24 <sup>th</sup> human case, in a 16-year-old boy from Anhui province (onset date 17 March 2007).  |
| 30 Mar 2007 | <b>Bangladesh</b> reports H5N1 in poultry (first ever in Bangladesh).  |  |
| 2 Apr 2007  | <b>Saudi Arabia</b> reports H5N1 in poultry (first ever in Saudi Arabia).  | <b>Egypt</b> confirms its 30 <sup>th</sup> human case, in a 4-year-old boy from Qena governorate (brother of the 28 <sup>th</sup> case), its 31 <sup>st</sup> human case, in a 7-year-old boy from Sohag governorate (both with onset date 26 March 2007), and its 32 <sup>nd</sup> human case, in a 4-year-old girl from Qaliyoubia governorate (onset date 29 March 2007).<br><br>According to the Ministry of Health in <b>Indonesia</b> , cases of H5N1 infection in humans continue to occur. |
| 10 Apr 2007 |  | <b>Cambodia</b> confirms its 7 <sup>th</sup> human case, in a 13-year-old girl from Kampong Cham province (onset date 2 April 2007) (first human case since March 2006).<br><b>Egypt</b> confirms its 33 <sup>rd</sup> human case, in a 2-year-old girl from Menia governorate (onset date 3 April 2007) and its 34 <sup>th</sup> human case in a 15-year-old girl from Cairo  |

|              |  |   |
|--------------|--|---|
|              |  | governorate (onset date 30 March 2007).   |
| 12 Apr 2007  | <b>Cambodia</b> reports H5N1 in village poultry. (This is the first report of H5N1 in poultry in Cambodia since August 2006.)  |   |
| 3 May 2007   | <b>Ghana</b> reports H5N1 in poultry (first ever in Ghana).  |   |
| 16 May 2007  |  | WHO retrospectively confirms 15 human cases and 13 deaths in <b>Indonesia</b> , bringing the total confirmed human cases to 96, with 76 deaths. Cases had onset dates between 25 January and 3 May 2007, and had been initially confirmed by the Indonesian Ministry of Health. |
| 19 May 2007  | <b>China</b> reports H5N1 in ducklings in Hunan province.  |   |
| 23 May 2007  |  | A resolution on international sharing of influenza viruses is reached at the WHO World Health Assembly in Geneva.   |
| 24 May 2007  | <b>Viet Nam</b> reports multiple outbreaks in unvaccinated poultry (primarily ducks) from several provinces throughout the country.<br><br><b>Bangladesh</b> reports multiple outbreaks in poultry from additional provinces throughout the country. | <b>Indonesia</b> confirms its 97 <sup>th</sup> human case, in a 5-year-old girl from Central Java province (onset date 8 May 2007).   |
| 25 May 2007  |  | The <b>United Kingdom</b> Health Protection Agency reports at least 4 human infections with low pathogenic avian influenza H7N2. The cases are associated with reported H7N2 infections in poultry.   |
| 30 May 2007  |  | <b>China</b> confirms its 25 <sup>th</sup> human case, in a 19-year-old soldier stationed in Fujian province (onset date 9 May 2007).   |
| 31 May 2007  |  | <b>Indonesia</b> confirms its 98 <sup>th</sup> human case, in a 45-year-old man from Central Java province (onset date 17 May 2007).  |
| 2 Jun 2007   | <b>Malaysia</b> reports its first outbreak in poultry since March, 2006 (in village chickens).   |   |
| 6 Jun 2007   |  | <b>Indonesia</b> confirms its 99 <sup>th</sup> human case, in a 16-year-old girl from Central Java province (onset date 21 May 2007).   |
| 11 June 2007 |  | <b>Egypt</b> confirms its 35 <sup>th</sup> human case, in a 10-year-old girl from Qena governorate (onset date 1 June 2007).  |
| 12 Jun 2007  |  | <b>Egypt</b> confirms its 36 <sup>th</sup> human case, in a 4-year-old girl from Qena governorate (onset date 7 June 2007) (no epidemiological link between these 2 most recent Egyptian cases).  |
| 15 Jun 2007  |  | <b>Indonesia</b> confirms its 100 <sup>th</sup> human case, in a 27-year-old man from Riau province (onset date 3 June 2007).   |
| 22 Jun 2007  | <b>Czech Republic</b> reports its first outbreak ever in poultry (in commercial turkeys).<br><br><b>Togo</b> reports its first outbreak  |   |

|              |   |  |
|--------------|---|--|
|              | ever in poultry (in commercial chickens).   |  |
| 25 June 2007 |   | <b>Egypt</b> confirms its 37 <sup>th</sup> human case, in a 4-year-old boy from Qena governorate (onset date 20 June 2007).<br><br><b>Indonesia</b> confirms its 101 <sup>st</sup> human case, in a 3-year-old girl from Riau province (onset date 18 June 2007).  |
| 26 Jun 2007  | <b>Germany</b> reports H5N1 in wild birds found dead. (This is the first report of H5N1 in Germany since it was detected in commercial poultry in April 2006.)  |  |
| 29 Jun 2007  | <b>Czech Republic</b> reports H5N1 in a dead mute swan (first in wild birds since May 2006).  | <b>Viet Nam</b> confirms its first human cases since November, 2005, in a 29-year-old man from Vinh Phuc province (onset date 10 May 2007) and a 19-year-old man from Thai Nguyen province (onset date 20 May 2007). No epidemiological link between these 2 cases has been identified. There have been 95 human cases in Viet Nam since 2003. |
| 5 Jul 2007   | <b>France</b> reports H5N1 in wild swans found dead. (This is the first report of H5N1 in France since it was detected in commercial turkeys in February 2006.)   |  |
| 6 Jul 2007   | <b>Germany</b> reports H5N1 in a dead domestic goose.   |  |
| 11 Jul 2007  |   | <b>Indonesia</b> confirms its 102 <sup>nd</sup> human case, in a 6-year-old girl from Banten province (onset date 23 June 2007).   |
| 15 Jul 2007  | <b>Bangladesh</b> Ministry of Agriculture reports continued H5N1 outbreaks in commercial and backyard poultry.  |  |
| 25 Jul 2007  |   | <b>Egypt</b> confirms its 38 <sup>th</sup> human case, in a 25-year-old woman from Damietta governorate (onset date 20 July 2007).   |
| 26 Jul 2007  | <b>India</b> reports H5N1 in backyard poultry. (This is the first report of H5N1 in India since April 2006.)  |  |
| July 2007    | In a letter published in Emerging Infectious Diseases, a HPAI H5N1 virus was detected by PCR in a common teal in Damietta governorate in the Nile Delta region, <b>Egypt</b> , in December 2005. The sample was collected through routine sampling of wild migratory birds prior to the detection of the first outbreaks in poultry (in February 2006) ( <a href="http://www.cdc.gov/eid/content/13/7/1120.htm">http://www.cdc.gov/eid/content/13/7/1120.htm</a> ). |  |
| 14 Aug 2007  |   | <b>Indonesia</b> confirms its 103 <sup>rd</sup> human case, in a 29-year-old woman from Bali province (onset date 3 August 2007).  |

|              |  |   |
|--------------|--|---|
| 15 Aug 2007  |  | <i>Research</i> <sup>25</sup><br>A study describing the epidemiology of 54 human cases of H5N1 infection in Indonesia is published. Conclusions included that 76% of cases were associated with poultry contact, and the source of infection was not identified in 24% of cases.  |
| 16 Aug 2007  |  | <b>Indonesia</b> confirms its 104 <sup>th</sup> human case, in a 17-year-old woman from Banten province (onset date 9 August 2007).   |
| 23 Aug 2007  |  | <b>Indonesia</b> confirms its 105 <sup>th</sup> human case, in a 28-year-old woman from Bali province (onset date 14 August 2007).  |
| 30 Aug 2007  |  | The WHO criteria for accepting confirmed cases of A(H5) infection are amended.  |
| 31 Aug 2007  |  | Based on amended acceptance criteria, <b>Viet Nam</b> retrospectively confirms its 96 <sup>th</sup> through 100 <sup>th</sup> cases, in a 28-year-old woman from Ha Nam province (onset date 3 June 2007), a 29-year-old man (onset date 30 May 2007) and a 15-year-old boy (onset date 27 July 2007) from Thanh Hoa province, and a 20-year-old man (onset date 2 June 2007) and a 22-year-old woman (onset date 20 July 2007) from Ha Tay province. |
| 07 Sept 2007 | <b>The Russian Federation</b> reports H5N1 in poultry. (This is the first report of H5N1 in the Russian Federation since January 2007.)  |   |
| 10 Sept 2007 |  | <b>Indonesia</b> confirms its 106 <sup>th</sup> human case, in a 33-year-old man from Riau province (onset date 25 August 2007).  |
| 15 Sept 2007 | <b>China</b> reports H5N1 in commercial ducks in Guangdong province. (This is the first report of H5N1 in China since May 2007.)   |   |
| 2 Oct 2007   |  | <b>Indonesia</b> confirms its 107 <sup>th</sup> human case, in a 21-year-old man from Jakarta (onset date 18 September 2007).   |
| 8 Oct 2007   |  | <b>Indonesia</b> confirms its 108 <sup>th</sup> human case, in a 44-year-old woman from Riau province (onset date 1 October 2007).  |
| 11 Oct 2007  | <b>Viet Nam</b> reports H5N1 in unvaccinated ducks in Tra Vinh province. (This is the first report of H5N1 in Viet Nam since August 2007.)   |   |
| 12 Oct 2007  |  | <b>Indonesia</b> confirms its 109 <sup>th</sup> human case, in a 12-year-old boy from Banten province (onset date 30 September 2007).   |
| 15 Oct 2007  | FAO published the occurrence of H5N1 outbreaks in poultry in 19 districts in <b>Bangladesh</b> and 4 districts in <b>Indonesia</b> , and in commercial poultry in Ogun, <b>Nigeria</b> (in September). <sup>24</sup> |   |
| 24 Oct 2007  | <b>Myanmar</b> reports H5N1 in commercial poultry in Bago region. (This is the first report of H5N1 in Myanmar   |   |

|             |   |   |
|-------------|---|---|
|             | since July 2007.)   |   |
| 25 Oct 2007 |   | <b>Indonesia</b> confirms its 110 <sup>th</sup> human case, in a 5-year-old girl from Banten province (onset date 14 October 2007).   |
| 31 Oct 2007 | <b>Viet Nam</b> reports H5N1 in unvaccinated poultry in 3 additional provinces.   | <b>Indonesia</b> confirms its 111 <sup>th</sup> human case, in a 3-year-old boy from Banten province. Both this case and the 110 <sup>th</sup> case became ill on 14 October, but no epidemiological link between them has been identified. |
| 5 Nov 2007  |   | <b>Indonesia</b> confirms its 112 <sup>th</sup> human case, in a 30-year-old woman from Banten province (onset date 23 October 2007).   |
| 12 Nov 2007 |   | <b>Indonesia</b> confirms its 113 <sup>th</sup> human case, in a 31-year-old man from Riau province (onset date 31 October 2007).   |
| 13 Nov 2007 | <b>UK</b> reports H5N1 in a flock of free-range turkeys in England (first since January 2007).  |   |
| 19 Nov 2007 | <b>Saudi Arabia</b> reports H5N1 in commercial chickens in 4 areas of Ar Riyad.   |   |
| 22 Nov 2007 | <b>Pakistan</b> reports H5N1 in commercial, poultry in the North West Frontier (first outbreak in poultry since July 2007).   |   |
| 23 Nov 2007 | <b>Myanmar</b> reports H5N1 in backyard poultry in a new state (Shan state).  |   |
| 27 Nov 2007 | <b>Romania</b> reports H5N1 in backyard poultry in Tulcea (first outbreak in poultry since May 2006).   |   |
| 3 Dec 2007  | <b>Poland</b> reports H5N1 in young turkeys in Mazowieckie (first outbreak ever in poultry, last H5N1 reported in a wild swan in May 2006).<br><b>Egypt</b> retrospectively reports 579 outbreaks of H5N1 in birds from 23 March 2006 through 24 November 2007. |   |
| 4 Dec 2007  |   | <b>China</b> confirms its 26 <sup>th</sup> human case, in a 24-year-old man from Jiangsu province (onset date 24 November 2007).  |
| 5 Dec 2007  | <b>Benin</b> reports highly pathogenic avian influenza (not confirmed as H5N1) in poultry in Cotonou and Adjara (first HPAI outbreak ever reported in Benin). Later published as H5N1 by FAO. <sup>24</sup>   |   |
| 9 Dec 2007  |   | <b>China</b> confirms its 27 <sup>th</sup> human case, in a 52-year-old man from Jiangsu province (onset date 3 December 2007), who is the father of the 26 <sup>th</sup> case.   |
| 12 Dec 2007 | <b>The Russian Federation</b> reports H5N1 in poultry in Rostovskaya. (This is the first outbreak of H5N1 in poultry in the Russian   | <b>Indonesia</b> confirms its 114 <sup>th</sup> human case, in a 28-year-old woman from Banten province (onset date 1 December 2007).   |

|             |   |   |
|-------------|---|---|
|             | <p>Federation since September 2007.)</p> <p><b>Pakistan</b> reports additional H5N1 outbreaks in commercial poultry in North West Frontier and Punjab provinces.</p> <p><b>Poland</b> reports H5N1 in birds in a second province (Warminsko-Mazurskie).</p> |   |
| 13 Dec 2007 |   | <b>Indonesia</b> confirms its 115 <sup>th</sup> human case, in a 47-year-old man from Banten province (onset date 2 December 2007).   |
| 14 Dec 2007 |   | <b>Myanmar</b> confirms its first human case, in a 7-year-old girl from Shan State (onset date 21 November 2007).   |
| 15 Dec 2007 |   | <b>Pakistan</b> informs WHO of 8 people in the North West Frontier Province that have tested positive for H5N1 in the national reference laboratory. These are the first suspected human cases ever reported in Pakistan. The presence of virus was confirmed in samples from 1 of these patients, a 25-year-old man from Peshawar (onset date 21 November).  |
| 17 Dec 2007 | <p>According to FAO<sup>27</sup>, H5N1 has continued to cause outbreaks in poultry in areas of <b>Indonesia</b> (Bali, Java, Sulawesi, and Sumatra) and <b>Viet Nam</b> (Tra Vinh, Cao Bang, Quang Tri provinces) in November and December.</p>             |   |
| 26 Dec 2007 |   | <b>Indonesia</b> confirms its 116 <sup>th</sup> human case, in a 24-year-old woman from Jakarta (onset date 14 December 2007). <b>Egypt</b> confirms its 39 <sup>th</sup> human case, in a 25-year-old woman from Beni Suef governorate (onset date 23 December 2007). This is the first case confirmed by Egypt since July 2007.   |
| 28 Dec 2007 |   | <b>Viet Nam</b> confirms its 101 <sup>st</sup> human case in a 4-year-old boy from Son La province (onset date 7 December 2007). The last case confirmed by Viet Nam had an onset of July 2007. <b>Egypt</b> confirms its 40 <sup>th</sup> human case in a 50-year-old woman from Damietta governorate (onset date 24 December 2007) and its 41 <sup>st</sup> human case in a 22-year-old woman from Menoufiya governorate (onset date 26 December 2007). |
| 29 Dec 2007 | <b>Myanmar</b> reports ongoing outbreaks of H5N1 in backyard poultry in Shan state.   |   |
| 31 Dec 2007 | <b>Benin</b> reports H5N1 in poultry in 2 new provinces (Dangbo and Porto Novo)   |   |
| 3 Jan 2008  | <b>Israel</b> reports H5N1 in birds in a petting zoo in Haifa (first outbreak since March 2006)   |   |
| 2 Jan 2008  |   | <b>Egypt</b> confirms its 42 <sup>nd</sup> human case in a 25-year-old woman from Dakahlia governorate (onset date 26 December) and its 43 <sup>rd</sup> human case in a 36-year-old woman from Menoufiya governorate (onset date 26  |



|             |  |   |
|-------------|--|---|
|             |  | December 2007).   |
| 4 Jan 2008  | <b>China</b> reports H5N1 in poultry in Xinjiang province. (This is the first outbreak reported in this province since September 2006.)  |   |
| 7 Jan 2008  | <b>Viet Nam</b> reports H5N1 in poultry in 4 provinces (Tra Vinh, Cao Bang, Thai Nguyen, and Quang Tri).   |   |
| 11 Jan 2008 |  | <b>Indonesia</b> confirms its 117 <sup>th</sup> human case, in a 16-year-old girl from West Java province (onset date 30 December 2008)   |
| 15 Jan 2008 | <b>India</b> reports H5N1 in backyard and commercial poultry in West Bengal state. (This is the first report of H5N1 in India since July 2007.)<br><br><b>Egypt</b> reports widespread H5N1 outbreaks in backyard and commercial poultry (including in vaccinated poultry) in 17 governorates during December and early January. | <b>Indonesia</b> confirms its 118 <sup>th</sup> human case, in a 32-year-old woman from Banten province (onset date 3 January 2008).  |
| 16 Jan 2008 | <b>Iran</b> reports H5N1 in backyard poultry in Mazandaran (first since February 2006).  |   |
| 21 Jan 2008 | <b>Ukraine</b> reports H5N1 in poultry in Crimea (first since June 06).  | <b>Indonesia</b> confirms its 119 <sup>th</sup> human case, in an 8-year-old boy from Banten province (onset date 7 January 2008).  |
| 22 Jan 2008 | <b>Germany</b> reports ongoing outbreaks of H5N1 in backyard birds in Brandenburg.<br><br><b>Turkey</b> reports H5N1 in backyard poultry in Zonguldak. (This is the first report of H5N1 in Turkey since February 2007.)   |   |
| 23 Jan 2008 | <b>Thailand</b> reports H5 in poultry in Nakhon Sawan and Phichit. (This is the first report of H5 in Thailand since March 2007.)  | <b>Indonesia</b> confirms its 120 <sup>th</sup> human case, in a 30-year-old man from Banten province (onset date 13 January 2008).   |
| 24 Jan 2008 |  | <b>Viet Nam</b> confirms its 102 <sup>nd</sup> human case in a 34-year-old man from Tuyen Quang province (onset date 10 January 2008).  |
| 29 Jan 2008 | <b>China</b> reports H5N1 in poultry in the Tibet Autonomous Region. (This is the first report of H5N1 in this region since March 2007.)   | <b>Indonesia</b> confirms its 121 <sup>st</sup> human case in a 31-year-old woman from Jakarta (onset date 18 January 2008), its 122 <sup>nd</sup> human case in a 9-year-old boy from West Java province (onset date 16 January 2008), 123 <sup>rd</sup> human case in a 32-year-old man from Banten province (onset date 17 January 2008), and its 124 <sup>th</sup> human case in a 23-year-old woman from Jakarta (onset date 19 January 2008). |
| 2 Feb       | <b>Pakistan</b> reports outbreaks of H5N1 on commercial farms  |   |

|             |   |   |
|-------------|---|---|
| 2008        | in Sindh (Karachi). (This is the first report of H5N1 in Pakistan since November 2007.)   |   |
| 5 Feb 2008  | <b>China</b> retrospectively reports H5N1 in 2 wild birds in Tuen Mun Park, Hong Kong SAR (detected in November and December 2007).   | <b>Indonesia</b> confirms its 125 <sup>th</sup> human case in a 29-year-old woman from Banten province (onset date 22 January 2008), and its 126 <sup>th</sup> human case in a 38-year-old woman from Jakarta (onset date 24 January 2008).   |
| 6 Feb 2008  | <b>United Kingdom</b> continues to report sporadic deaths due to H5N1 in mute swans in southern England (detected in November and December 2007).   |   |
| 11 Feb 2008 | FAO published the occurrence of continued H5N1 outbreaks in poultry in <b>Indonesia</b> . <sup>24</sup>   |   |
| 12 Feb 2008 |   | <b>Indonesia</b> confirms its 127 <sup>th</sup> human case in a 15-year-old girl from Jakarta (onset date 2 February 2008)  |
| 13 Feb 2008 | <b>Lao PDR</b> reports H5N1 in poultry in Luang Namtha. (This is the first report of H5N1 in Lao PDR since February 2007.)  |   |
| 15 Feb 2008 |   | <b>Viet Nam</b> confirms its 103 <sup>rd</sup> human case, in a 40-year-old man from Hai Duong province (onset date 2 February 2008).   |
| 17 Feb 2008 | <b>Saudi Arabia</b> reports H5N1 in poultry in Ar Riyad, outbreaks dated from Oct 07 through Jan 08.  |   |
| 18 Feb 2008 | <b>Nigeria</b> reports H5N1 in poultry in Anambra. (This is the first report of H5N1 in Nigeria since March 2006.)  |   |
| 20 Feb 2008 | <b>Pakistan</b> reports new H5N1 outbreaks in poultry in North West Frontier province.  | <b>China</b> confirms its 28 <sup>th</sup> human case, in a 22-year-old man from Hunan province (onset date 16 January 2008).   |
| 21 Feb 2008 |   | <b>Indonesia</b> confirms its 128 <sup>th</sup> human case in a 16-year-old man from Central Java province (onset date 3 February 2008), and its 129 <sup>th</sup> human case in a 3-year-old boy from Jakarta (onset date 3 February 2008).<br><b>Viet Nam</b> confirms its 104 <sup>th</sup> human case in a 27-year-old man from Ninh Binh province (onset date 3 February 2008) |
| 22 Feb 2008 |   | <b>China</b> confirms its 29 <sup>th</sup> human case, in a 41-year-old man from Guangxi Autonomous Region (onset date 12 February 2008).   |
| 25 Feb 2008 | <b>Viet Nam</b> continues to report outbreaks of H5N1 in poultry from several provinces.<br><b>China</b> reports H5N1 in poultry in Guizhou province. (This is the first report from this province since January 2006.) |   |
| 26 Feb 2008 | <b>Turkey</b> reports H5N1 in poultry in a new province,  | <b>China</b> confirms its 30 <sup>th</sup> human case, in a 44-year-old woman from Guangdong province (onset date 16  |

|             |  |   |
|-------------|--|---|
|             | Sinop.<br><b>Pakistan</b> reports new H5N1 outbreaks in poultry in Sindh province.   | February).<br><b>Viet Nam</b> confirms its 105 <sup>th</sup> human case, in a 23-year-old woman from Phu Tho province (onset date 14 February). |
| 28 Feb 2008 |  | <b>Egypt</b> confirms its 44 <sup>th</sup> human case in a 4-year-old girl from Menia governorate (onset date 21 February).                     |
| 1 Mar 2008  | <b>Myanmar</b> reports AI-seropositive ducks detected during surveillance in Shan state (serotype not reported).   |   |
| 4 Mar 2008  |  | <b>Egypt</b> confirms its 45 <sup>th</sup> human case in a 26-year-old woman from Fayoum governorate (onset date 24 February).                  |
| 5 Mar 2008  |  | <b>Egypt</b> confirms its 46 <sup>th</sup> human case in an 11-year-old boy from Menia governorate (Hospitalization date 26 February).          |
| 9 Mar 2008  | According to the Ministry of Fisheries and Livestock in <b>Bangladesh</b> , 47 districts have now had confirmed outbreaks of H5 infection in birds. According to the Department of Animal Husbandry, Dairying, and Fisheries in <b>India</b> , additional H5 infection in birds has been confirmed in West Bengal state. |   |
| 10 Mar 2008 | <b>Pakistan</b> reports new H5N1 outbreaks in poultry in North West Frontier Province.   |   |
| 11 Mar 2008 |  | <b>Egypt</b> confirms its 47 <sup>th</sup> human case in an 8-year-old boy from Fayoum governorate (Hospitalization date 3 March 2008).         |
| 16 Mar 2008 | <b>China</b> reports H5N1 in poultry at a live animal market in Guangdong province.<br><br>FAO published that HPAI is still being detected in poultry on 3 islands of <b>Indonesia</b> , Bali, Java, and Sumatra. <sup>24</sup>  | <b>Viet Nam</b> confirms its 106 <sup>th</sup> human case, in an 11-year-old boy from Ha Nam province (onset date 4 March).                     |
| 18 Mar 2008 | <b>Turkey</b> reports H5N1 in backyard poultry in Edirne   |   |
| 25 Mar 2008 | <i>Research</i> <sup>26</sup><br>A study is published describing the epidemiological association between the presence of H5N1 virus and duck populations, human populations, and rice production in Viet Nam and Thailand.   |   |
| 28 Mar 2008 | <b>India</b> reports additional outbreaks in backyard poultry in West Bengal state.  |   |
| 31 Mar      | <b>Switzerland</b> reports H5N1 in a healthy wild bird in Luzern   |   |

|             |  |   |
|-------------|--|---|
| 2008        | Canton. (This is the first report of H5N1 in Switzerland since June 2006.)   |   |
| 1 Apr 2008  | <b>Viet Nam</b> continues to report outbreaks of H5N1 in poultry from several provinces.   |   |
| 2 Apr 2008  | <b>Republic of Korea</b> reports H5N1 in poultry in Cholla-Bukdo. (This is the first report of H5N1 in the Republic of Korea since June 2007.)   | <b>Indonesia</b> confirms its 130 <sup>th</sup> human case, in a 15-year-old boy from West Java province (onset date 19 March 2008), its 131 <sup>st</sup> human case in an 11-year-old girl from West Java province (onset date 19 March 2008) and its 132 <sup>nd</sup> human case in a 21-month old girl from West Sumatra province (onset date 17 March 2008). There has been no epidemiological link identified among the cases. |
| 3 Apr 2008  |  | <b>Pakistan</b> confirms 2 additional cases in a family cluster in North West Frontier Province in Oct-Nov 2007, suggesting limited human-to-human transmission likely occurred. These additional cases were confirmed serologically according to WHO criteria, and bring the cumulative number of human cases in Pakistan to 3.  |
| 8 Apr 2008  | <b>India</b> reports H5N1 in backyard poultry in a new state, Tripura state.   | <b>Egypt</b> confirms its 48 <sup>th</sup> human case in a 19-year-old man from Beheira governorate (onset date 30 March 2008).   |
| 11 Apr 2008 | <b>The Russian Federation</b> reports H5N1 in village poultry in Primorskiy Kray. (This is the first report of H5N1 in the Russian Federation since December 2007.)                    |   |
| 15 Apr 2008 | <b>Republic of Korea</b> reports H5N1 in poultry in 2 new provinces (Cholla-Namdo and Ch'ungch'ong-Bukdo)  | <b>Egypt</b> confirms its 49 <sup>th</sup> human case in a 30-year-old woman from Cairo governorate (onset date 2 April 2008).  |
| 17 Apr 2008 |  | <b>Egypt</b> confirms its 50 <sup>th</sup> human case in a 2-year-old boy from Sharkia governorate (onset date 13 April 2008).  |
| 23 Apr 2008 | <b>Viet Nam</b> continues to report outbreaks of H5N1 in poultry from several provinces.   |   |
| 24 Apr 2008 | <b>Bangladesh</b> reports 156 outbreaks in commercial or backyard poultry in 6 divisions from 28 Dec 2007 through 14 Apr 2008 (Dhaka, Chittagong, Khulna, Rajshashi, Barasil, Sylhet). |   |
| 29 Apr 2008 | <b>Japan</b> reports H5N1 in 4 dead/ill wild swans in Akita prefecture. (This is the first report of H5N1 in birds in Japan since January 2007.)                                       |   |
| 30 Apr 2008 |  | <b>Indonesia</b> confirms its 133 <sup>rd</sup> human case in a 3-year-old boy from Central Java province (onset date 14 April).  |
| 13 May 2008 | <b>Japan</b> reports H5N1 in wild swans in Hokkaido prefecture.  |   |
| 20 May 2008 | <b>Republic of Korea</b> reports outbreaks in poultry in 10 provinces.   |   |
| 28 May      |  | <b>Bangladesh</b> confirms its first human case, in a 16-month-old boy from Komalapur, Dhaka division (onset date 27  |

|             |   |   |
|-------------|---|---|
| 2008        |   | Jan 2008). The case was identified retrospectively as part of seasonal influenza surveillance activities.   |
| 1 Jun 2008  | <b>Japan</b> reports H5N1 in wild swans in Aomori prefecture.   |   |
| 3 Jun 2008  | <b>India</b> reports H5N1 in backyard birds in West Bengal state.   |   |
| 6 Jun 2008  | <b>United Kingdom</b> reports highly pathogenic avian influenza H7N7 in a commercial flock of chickens in England.  |   |
| 11 Jun 2008 | <b>Bangladesh</b> reports H5N1 in commercial poultry in Dhaka division.   |   |
| 16 Jun 2008 | FAO published that HPAI remains endemic in <b>Indonesia</b> on the islands of Java, Sumatra, Bali, and South Sulawesi and sporadic outbreaks are reported from other areas. <sup>24</sup>   |   |
| 19 Jun 2008 |   | <b>Indonesia</b> confirms its 134 <sup>th</sup> human case in a 16-year-old girl from Jakarta (onset date 7 May 2008) and 135 <sup>th</sup> human case, in a 34-year-old woman from Banten province (onset date 26 May 2008). |
| 20 Jun 2008 | <b>China</b> reports H5N1 in poultry in Guangdong province. (This is the first report of H5N1 in birds in Guangdong province since March 2008.)   |   |
| 26 Jun 2008 | <b>Pakistan</b> reports outbreak of H5N1 in commercial poultry in North West Frontier province. (This is the first report of H5N1 in birds in Pakistan since March 2008.)   |   |
| 7 Jul 2008  | <b>Egypt</b> reports outbreaks in 9 governorates (Gharbia, Menoufiya, Kafr el Sheikh, Dakahlia, Sharkia, Menia, Giza, Sohag, and Luxor) in commercial and backyard poultry, and poultry in live bird markets, from 7 Feb to 14 Jun, 2008. In this report, the national veterinary Services (GOVS) declares H5N1 to be endemic in Egypt. |   |
| 14 Jul 2008 | <b>Viet Nam</b> reports 15 outbreaks in poultry in 9 provinces throughout the country (Can Tho City, Ha Tinh, Kien Giang, Long An, Nghe An, Quang Ngai, Son La, Tra Vinh, Vinh Long). (This is the first report of H5N1 in Viet Nam since April 2008.)  |   |

|              |  |  |
|--------------|--|--|
| 24 Jul 2008  | <b>Nigeria</b> reports H5N1 infection in poultry in 4 states (Kebbi, Gombe, Katsina, and Kano). The 2 live bird market cases were detected through routine surveillance.   |  |
| 25 Jul 2008  | FAO published the finding of H5N1 in <b>Indonesia</b> , in village poultry in Bengkulu province. <sup>24</sup>   |  |
| 25 Aug 2008  | <b>Benin</b> reports H5 virus in chickens in a live animal market in Lokassa. These cases were detected as part of routine surveillance and training. (This is the first report of H5 in Benin since December 2007.)                   |  |
| 10 Sept 2008 |  | <b>Indonesia</b> confirms its 136 <sup>th</sup> human case in a 38-year-old man from Banten province (onset date 4 July 2008) and 137 <sup>th</sup> human case, in a 20-year-old man from Banten province (onset date 20 July 2008). |
| 14 Sept 2008 | <b>Lao PDR</b> reports H5N1 in poultry in Luangprobang and Oudomxay provinces. (This is the first report of H5N1 in Lao PDR since February 2008.)  |  |
| 18 Sept 2008 | <b>Togo</b> reports H5N1 in poultry in the Région Maritime. (This is the first report of H5N1 in Togo since July 2007.)  |  |
| 30 Sept 2008 | <b>Viet Nam</b> reports 9 H5N1 outbreaks in poultry in 6 provinces throughout the country (Ben Tre, Ca Mau, Dong Thap, Kien Giang, Nghe An, and Quang Ngai) from July –April 2008.   |  |
| 10 Oct 2008  | <b>Germany</b> reports H5N1 in poultry on a farm in Sachsen. (This is the first report of H5N1 in Germany since January 2008.)   |  |
| 15 Oct 2008  | <b>The Russian Federation</b> retrospectively reports 2 outbreaks from 2007, in February in Moskovskaya and in December in Rostovskaya.  |  |
| 10 Nov 2008  | <b>Lao PDR</b> reports H5N1 in backyard chickens in 1 additional province (Xayabury)<br><br><b>Thailand</b> reports H5N1 in backyard poultry in Sukhothai province. (This is the first report of H5N1 in Thailand since January 2008.) |  |

|             |  |   |
|-------------|--|---|
| 11 Nov 2008 | <b>Thailand</b> reports an additional H5N1 outbreak in poultry in a new province, Uthai Thani.   |   |
| 20 Nov 2008 | <b>Bangladesh</b> reports H5N1 in commercial poultry in Rajshahi division from September 2008. (This is the first report of H5N1 in Bangladesh since June 2008.)                     |   |
| 27 Nov 2008 | <b>Viet Nam</b> reports H5N1 in Nghe An province.  |   |
| 28 Nov 2008 | <b>India</b> reports H5N1 in village poultry in Assam state. (This is the first report of H5N1 in India since May 2008.)   |   |
| 1 Dec 2008  | <b>Lao PDR</b> retrospectively reports H5N1 in Luangnamtha province from February 2008 (more recent outbreaks were reported in October 2008)   |   |
| 3 Dec 2008  | <b>Bangladesh</b> Ministry of Fisheries and Livestock reports a new H5N1 outbreak in poultry in Rajshahi division (Rangpur district).  |   |
| 9 Dec 2008  |  | <b>Indonesia</b> confirms its 138 <sup>th</sup> human case in a 9-year-old girl from Riau province (onset date 7 November 2008) and 139 <sup>th</sup> human case in a 2-year-old girl from East Jakarta province (onset date 18 November 2008). |
| 11 Dec 2008 | <b>India</b> reports additional H5N1 outbreaks in backyard and commercial poultry in several districts of Assam state.   |   |
| 12 Dec 2008 | <b>China Hong Kong SAR</b> reports an H5N1 outbreak in commercial poultry in Yuen Long. (This is the first report of H5N1 in commercial poultry in Hong Kong since 2002.)            | <b>Cambodia</b> confirms its 8 <sup>th</sup> human case in a 19-year-old man from Kandal province (onset date 28 November 2008). This is the first non-fatal case of human H5N1 infection in Cambodia.  |
| 16 Dec 2008 |  | <b>Egypt</b> confirms its 51 <sup>st</sup> human case, in a 16-year-old girl from Assiut governorate (onset date, 8 December 2008).   |
| 17 Dec 2008 | <b>India</b> reports H5N1 outbreaks in backyard poultry in West Bengal state.<br><br><b>Bangladesh</b> reports H5N1 outbreaks in commercial poultry in Dhaka and Rajshahi divisions. |   |
| 19 Dec 2008 | <b>China</b> reports H5N1 outbreaks in poultry in Jiangsu province (first outbreak reported by China since June 2008, in Guangdong province).  |   |

|             |   |   |
|-------------|---|---|
|             | According to the Update on the Avian Influenza Situation (Issue No. 182) in <b>Cambodia</b> , ducks were confirmed H5N1 positive in Kandal province <sup>27</sup> (first outbreak reported by Cambodia since April 2007). |   |
| 29 Dec 2008 | <b>Viet Nam</b> reports an H5N1 outbreak in poultry in a new province, Thai Nguyen province.  |   |
| 2 Jan 2008  | The H5N1 virus continues to cause outbreaks in poultry in Assam and West Bengal states in <b>India</b> .  |   |
| 4 Jan 2009  | The <b>Bangladesh</b> Ministry of Fisheries and Livestock reports new H5N1 outbreaks in poultry in Rajshahi division.   |   |
| 7 Jan 2009  | <b>Viet Nam</b> reports an H5N1 outbreak in poultry in a new province, Thanh Hoa province (outbreak detected after confirmation of human case).   | <b>China</b> confirms its 31 <sup>st</sup> human case, in a 19-year-old woman from Beijing (onset date 24 December 2008).<br><br><b>Viet Nam</b> confirms its 107 <sup>th</sup> human case, in an 8-year-old girl from Thanh Hoa province (onset date 27 December 2008).  |
| 14 Jan 2009 |   | <b>Egypt</b> confirms its 52 <sup>nd</sup> human case, in a 21-month-old girl from 6 <sup>th</sup> October governorate (onset date 9 January 2009).   |
| 15 Jan 2009 | FAO published that, in <b>Indonesia</b> , HPAI remains endemic on Java, Sumatra, and Sulawesi Islands with sporadic outbreaks reported from other areas. <sup>24</sup>  |   |
| 16 Jan 2009 | <b>Nepal</b> reports an H5N1 outbreak in backyard poultry in Mechi zone. (This is the first ever report of H5N1 in Nepal.)  |   |
| 19 Jan 2009 |   | <b>China</b> confirms its 32 <sup>nd</sup> human case, in a 27-year-old woman from Shandong province (onset date 5 January 2009), its 33 <sup>rd</sup> human case, in a 2-year-old girl reported from Shanxi province who was likely exposed in Hunan province (onset date 7 January 2009), and its 34 <sup>th</sup> human case, in a 16-year-old man who sought care in Hunan province and who was likely exposed in Guizhou province (onset date 8 January 2009). |
| 21 Jan 2009 | <b>India</b> reports H5N1 outbreaks in poultry in a new state, Sikkim   |   |
| 22 Jan 2009 | <b>Bangladesh</b> reports H5N1 outbreaks in poultry in a new division, Chittagong. The last report from this division was in April 2008.<br><br>FAO published the occurrence outbreaks of                                 | <b>Indonesia</b> confirms its 140 <sup>th</sup> case, in a 29-year-old woman from Banten province (onset date 11 December 2008) and its 141 <sup>st</sup> case, in a 5-year-old girl from West Java province (onset date 23 December 2008).   |



|             |  |   |
|-------------|--|---|
|             | H5N1 in <b>Egypt</b> , in backyard poultry in Assiut and Fayoum governorates.  |   |
| 26 Jan 2009 |  | <b>Egypt</b> confirms its 53 <sup>rd</sup> human case, in a 2-year-old girl from Menoufiya governorate.   |
| 27 Jan 2009 |  | <b>China</b> confirms its 35 <sup>th</sup> human case, in a 31-year-old woman from Xinjiang Autonomous Region (onset date 10 January 2009), its 36 <sup>th</sup> human case, in a 29-year-old man from Guizhou province (onset date 15 January 2009), and its 37 <sup>th</sup> human case, in a 18-year-old man from Guangxi province (onset date 10 January 2009). |
| 2 Feb 2009  | <b>India</b> reports additional H5N1 outbreaks in backyard poultry in new areas of West Bengal state.  | <b>China</b> confirms its 38 <sup>th</sup> human case, in a 21-year-old woman from Hunan province (onset date 23 January 2009).   |
| 3 Feb 2009  | <b>Bangladesh</b> reports additional H5N1 outbreaks in backyard poultry in Rajshahi division.<br><br><b>Viet Nam</b> reports H5N1 outbreaks in poultry in Ca Mau province (first outbreak in this province since September 2008).  |   |
| 5 Feb 2009  |  | <b>Egypt</b> confirms its 54 <sup>th</sup> human case, in a 2-year-old boy from Suez governorate.   |
| 6 Feb 2009  | <b>Viet Nam</b> reports additional H5N1 outbreaks in poultry in Ca Mau province and new outbreaks in Soc Trang and Nghe An provinces.  |   |
| 9 Feb 2009  |  | <b>Egypt</b> confirms its 55 <sup>th</sup> human case, in a 18-month-old boy from Menia governorate (onset date 6 February 2009).   |
| 10 Feb 2009 | <b>China</b> reports an H5N1 outbreak in poultry in Xinjiang Autonomous Region (first outbreaks in this region since December 2007)<br><br><b>Bangladesh</b> reports an additional H5N1 outbreak in a commercial poultry farm in Dhaka division.   |   |
| 11 Feb 2009 |  | <b>Viet Nam</b> confirms its 108 <sup>th</sup> human case, in a 23-year-old woman from Quang Ninh province (onset date 28 January 2009).  |
| 13 Feb 2009 | FAO published information indicating the occurrences of outbreaks of H5N1 in <b>Egypt</b> , in backyard poultry in Sharkia, Beheira, Helwan, and Fayoum governorates. <sup>24</sup><br><br><b>China Hong Kong SAR</b> reports H5N1 in wild migratory and local birds as well as commercial poultry on the coast. |   |

|             |   |   |
|-------------|---|---|
| 16 Feb 2009 | <b>Viet Nam</b> reports new or ongoing H5N1 outbreaks in commercial and village poultry in Bac Ninh, Ca Mau, Hau Giang, Quang Ninh, Quang Tri, and Soc Trang provinces.   |   |
| 18 Feb 2009 |   | <b>Viet Nam</b> confirms its 109 <sup>th</sup> human case, in a 32-year-old man from Ninh Binh province (onset date 5 February 2009). |
| 19 Feb 2009 | <b>India</b> reports additional outbreaks in backyard poultry in West Bengal state.   |   |
| 20 Feb 2009 | <b>Nepal</b> reports a second H5N1 outbreak in backyard poultry in Mechi zone.  |   |
| 22 Feb 2009 | <b>Viet Nam</b> reports new or ongoing H5N1 outbreaks in poultry in Bac Lieu, Khanh Hoa, Ninh Binh, and Quang Ninh, provinces.  |   |
| 26 Feb 2009 | <b>Lao PDR</b> reports a new outbreak of H5N1 in poultry in Phongsaly province. (This is the first report of H5N1 in Lao PDR since October 2008.)   |   |
| 26 Feb 2009 | <b>Bangladesh</b> reports ongoing H5N1 outbreaks in backyard poultry and commercial farms in Dhaka division, and the MoH reports new outbreaks in Rajshahi and Chittagong divisions.  |   |
| 2 Mar 2009  |   | <b>Egypt</b> confirms its 56 <sup>th</sup> human case, in a 2-year-old boy from Fayoum governorate (onset date 25 February 2009).     |
| 10 Mar 2009 | <b>Germany</b> reports H5N1 in a single wild bird hunted in January 2009 in Bayern province.  | <b>Egypt</b> confirms its 57 <sup>th</sup> human case, in a 2 1/2-year-old boy from Alexandria governorate (onset date 3 March 2009). |
| 11 Mar 2009 |   | <b>Egypt</b> confirms its 58 <sup>th</sup> human case, in a 1 1/2-year-old girl from Menoufiya governorate (onset date 6 March 2009). |
| 18 Mar 2009 | <b>Egypt</b> reports outbreaks of H5N1 in mostly backyard poultry in February and March in Alexandria, Assiut, Aswan, Beheira, Fayoum, Gharbia, Giza, Helwan, Menoufiya, Menia, Sharkia, 6 <sup>th</sup> of October, and Suez governorates through the SAIDR website. <sup>28</sup> |   |
| 23 Mar 2009 |   | <b>Egypt</b> confirms its 59 <sup>th</sup> human case, in a 38-year-old woman from Assiut governorate (onset date 14 March 2009).     |
| 30 Mar 2009 |   | <b>Egypt</b> confirms its 60 <sup>th</sup> human case, in a 3-year-old girl from Qena governorate (onset date 23 March 2009).         |
| 8 Apr       |   | <b>Egypt</b> confirms its 61 <sup>st</sup> and 62 <sup>nd</sup> human cases, in 2 2-  |

|             |   |  |
|-------------|---|--|
| 2009        |   | <p>year-old boys from Kom Hamada district, Beheira governorate (onset dates 27 and 31 March 2009). Investigation of close contacts did not reveal any other people with symptoms of the infection. Egypt also confirmed its 63<sup>rd</sup> human case, in a 6-year-old boy from Qaliyoubia governorate (onset date 22 March 2009).</p> <p><b>Viet Nam</b> confirms its 110<sup>th</sup> human case, in a 3-year-old boy from Dong Thap province (onset date 12 March 2009).</p> |
| 10 Apr 2009 | <b>Viet Nam</b> reports new or ongoing H5N1 outbreaks in poultry in Lai Chau and Quang Ninh provinces.  |  |
| 13 Apr 2009 | <b>Bangladesh</b> reports new or ongoing H5N1 outbreaks in commercial and backyard poultry in Barisal, Chittagong, Dhaka, and Rajshahi divisions. |  |
| 16 Apr 2009 | <b>China Hong Kong SAR</b> reports H5N1 in poultry and a wild bird in Ping Chau.  |  |
| 17 Apr 2009 |   | <b>Egypt</b> confirms its 64 <sup>th</sup> human case, in a 33-year-old woman from Kafr el Sheikh governorate (onset date 7 April 2009).   |
| 19 Apr 2009 | <b>China</b> reports H5N1 in birds in a live chicken market in the Xizang Autonomous Region (Tibet).  |  |
| 21 Apr 2009 |   | <b>Egypt</b> confirms its 65 <sup>th</sup> human case, in a 25-year-old woman from Cairo (onset date 6 April 2009) and its 66 <sup>th</sup> human case, in an 18-month-old girl from Kafr el Sheikh governorate (onset date 15 April 2009).  |
| 23 Apr 2009 |   | <b>Egypt</b> confirms its 67 <sup>th</sup> human case, in a 4-year-old boy from Sohag governorate (onset date 18 April 2009).  |
| 6 May 2009  |   | <p><b>Viet Nam</b> confirms its 111<sup>th</sup> human case, in a 23-year-old woman from Thanh Hoa province (onset date 16 April 2009).</p> <p><b>Egypt</b> confirms its 68<sup>th</sup> human case, in a 34-year-old woman from Gharbia governorate (onset date 21 April 2009).</p>   |
| 15 May 2009 |   | <b>Egypt</b> confirms its 69 <sup>th</sup> human case, in a 5-year-old girl from Sohag governorate (onset date 7 May 2009)   |
| 17 May 2009 | <b>China</b> reports H5N1 in dead wild birds in Qinghai province.   |  |
| 21 May 2009 | <b>Viet Nam</b> reports new or ongoing H5N1 outbreaks in poultry in Dong Thap, Quang Ngai, Thanh Hoa, and Vinh Long provinces.                    |  |
| 22 May 2009 |   | <b>Egypt</b> confirms its 70 <sup>th</sup> human case, in a 4-year-old boy from Sharkia governorate (onset date 10 May 2009), its 71 <sup>st</sup> human case, in a 3-year-old boy from Gharbia governorate (onset date 12 May 2009), its 72 <sup>nd</sup> human case, in a 4-year-old girl from Dakahlia governorate (onset date 9 May 2009), its 73 <sup>rd</sup> human case, in a 4-year-old boy from Dakahlia governorate (onset date 18                                     |

|             |  |  |
|-------------|--|--|
|             |  | May 2009), and its 74 <sup>th</sup> human case, in a 3-year-old boy from Sohag governorate (onset date 17 May 2009).   |
| 27 May 2009 | <b>India</b> reports continuing outbreaks of H5N1 in rural backyard poultry in West Bengal state.  |  |
| 28 May 2009 | <b>Mongolia</b> reports H5N1 in wild migratory swans. (This is the first report of H5N1 in Mongolia since May 2006.)   | <b>Egypt</b> confirms its 75 <sup>th</sup> human case, in a 4-year-old boy from Hehia district (onset date 24 May 2009) and its 76 <sup>th</sup> human case, in a 4-year-old girl from Abo Hammad district (onset date 23 May 2009), both in Sharkia governorate.  |
| 1 Jun 2009  |  | <b>Egypt</b> confirms its 77 <sup>th</sup> human case, in a 1-year-old girl from Dakahlia governorate (onset date 25 May 2009).  |
| 2 Jun 2009  |  | <b>Egypt</b> confirms its 78 <sup>th</sup> human case, in a 4-year-old girl from Kafr el Sheikh governorate (onset date 30 May 2009).  |
| 17 Jun 2009 | <b>Bangladesh</b> reports new or ongoing H5N1 outbreaks in commercial poultry in Dhaka and Chittagong divisions.   |  |
| 24 Jun 2009 | <b>The Russian Federation</b> reports H5N1 in wild birds in the Tyva republic. (This is the first report of H5N1 from the Russian Federation since April 2008.)  |  |
| 26 Jun 2009 | <b>Viet Nam</b> reports new or ongoing H5N1 outbreaks in household poultry in Quang Ninh province.   |  |
| 30 Jun 2009 | FAO published that, in <b>Indonesia</b> , HPAI remains endemic on Java, Sumatra, and Sulawesi Islands with sporadic outbreaks reported from other areas. <sup>24</sup>   |  |
| 1 Jul 2009  |  | <b>Egypt</b> confirms its 79 <sup>th</sup> human case, in a 1-year-old boy from Damietta governorate (onset date 1 June 2009), its 80 <sup>th</sup> human case, in a 4-year-old girl from Dakahlia governorate (onset date 5 June 2009), and its 81 <sup>st</sup> human case, in a 1 year old boy from Kafr el Sheikh governorate (onset date 15 June 2009). |
| 14 Jul 2009 | <b>Bangladesh</b> reports ongoing H5N1 outbreaks in commercial poultry in Chittagong division.   |  |
| 24 Jul 2009 | <b>Egypt</b> has reported outbreaks of H5N1, mostly in household poultry, between April and July in Alexandria, Beheira, Beni Suef, Dakahlia, Damietta, Fayoum, Gharbia, Giza, Kafr el Sheikh, Luxor, Menoufiya, Menia, Port Said, Qaliyoubia, Sharkia, 6 <sup>th</sup> of October, Sohag and Suez governorates through the SAIDR website. <sup>28</sup> |  |
| 10 Aug      | <b>Mongolia</b> reports additional outbreaks of H5N1 in wild   |  |

|             |  |  |
|-------------|--|--|
| 2009        | birds in Arkhangai.  |  |
| 11 Aug 2009 |  | <b>Egypt</b> confirms its 82 <sup>nd</sup> human case, in a 8-year-old girl from Kafr el Sheikh governorate (onset date 24 July 2009) and its 83 <sup>rd</sup> human case, in a 18-month-old boy from Menoufiya governorate (onset date 28 July 2009).   |
| 31 Aug 2009 |  | <b>Egypt</b> confirms its 84 <sup>th</sup> human case, in a 2-year-old girl from Menoufiya governorate (onset date 23 August 2009) and its 85 <sup>th</sup> human case, in a 14-year-old girl from Damietta governorate (onset date 21 August 2009).     |
| 31 Aug 2009 | FAO published information indicating that 134 (6.8%) of villages under surveillance in <b>Indonesia</b> were positive for H5N1 in poultry, and confirms the virus to be endemic on the islands of Java, Sumatra and Sulawesi, and probably Bali, with sporadic outbreaks reported elsewhere. <sup>29</sup> |  |
| 20 Sep 2009 | <b>Bangladesh</b> reports ongoing H5N1 outbreaks in commercial poultry in Chittagong division.   |  |
| 24 Sep 2009 |  | <b>Egypt</b> confirms its 86 <sup>th</sup> human case, in a 13-year-old boy from Alexandria governorate (onset date 13 September 2009) and its 87 <sup>th</sup> human case, in a 1-year-old girl from Beheira governorate (onset date 23 September 2009) |
| 29 Oct 2009 | FAO published information indicating the occurrence of 104 outbreaks of H5N1 in poultry in <b>Indonesia</b> during September, especially concentrated in provinces on Java Island. <sup>24</sup>   |  |
| 5 Nov 2009  | <b>The Russian Federation</b> reports H5N1 in a wild bird in Moskovskaya Oblast.<br><br><b>Viet Nam</b> reports H5N1 in birds in Dien Bien province. This is the first outbreak reported from Viet Nam since June 2009.  |  |
| 20 Nov 2009 |  | <b>Egypt</b> confirms its 88 <sup>th</sup> human case, in a 21-year-old man from Alexandria governorate (onset date 11 November 2009).   |
| 27 Nov 2009 |  | <b>Egypt</b> confirms its 89 <sup>th</sup> human case, in a 3-year-old boy from Menia governorate (onset date 21 November 2009).   |
| 11 Dec 2009 |  | <b>Viet Nam</b> confirms its 112 <sup>th</sup> human case, in a man from Dien Bien province (onset date 18 November, 2009). This is the first case reported from Viet Nam since April 2009.  |
| 13 Dec 2009 | <b>Viet Nam</b> reports H5N1 in birds in Ca Mau province.  |  |
| 16 Dec 2009 | <b>Viet Nam</b> reports H5N1 in birds in Thai Nguyen province.   |  |
| 18 Dec      |  | <b>Cambodia</b> confirms its 9 <sup>th</sup> human case, in a 57-year-old  |

|             |   |   |
|-------------|---|---|
| 2009        |   | man from Kampong Cham province (onset date 11 December 2009). This is the first human case reported from Cambodia since November 2008.  |
| 21 Dec 2009 |   | <b>Egypt</b> confirms its 90 <sup>th</sup> human case, in a 21-year-old woman from Gharbia governorate (onset date 15 December 2009).   |
| 27 Dec 2009 | <b>Viet Nam</b> reports H5N1 in birds in Cao Bang province.   |   |
| 28 Dec 2009 | <b>Cambodia</b> reports H5N1 in backyard poultry in Kampong Cham province. This is the first outbreak reported from Cambodia since December 2008.   |   |
| 29 Dec 2009 |   | <b>Indonesia</b> confirms 21 human cases with onset dates in 2009; a 26-year-old woman from West Java province (onset date 9 January); a 14-year-old girl from West Java province (onset date 13 January); a 21-year-old woman from East Java province (onset date 16 January); a 30-year-old man from West Java province (onset date 20 January); a 12-year-old boy from Jakarta (onset date 24 January); a 3-year-old girl from Banten province (onset date 6 February); a 42-year-old man from West Java province (onset date 14 February); a 5-year-old girl from West Java province (onset date 18 February); a 8-year-old boy from West Java province (onset date 18 February); a 4-year-old girl from Jakarta (onset date 25 February); a 2-year-old boy from Riau province (onset date 9 March); a 5 ½-year-old girl from Jakarta (onset date 21 March); a 24-year-old woman from Yogyakarta (onset date 7 April); a 24-year-old woman from Jakarta (onset date 14 May); a 27-year-old woman from Jakarta (onset date 18 May); a 1-year-old girl from Jakarta (onset date 26 May); a 5-year-old boy from Jakarta (onset date 8 June); a 16-year-old girl from Jakarta (onset date 12 June); a 43-year-old woman from East Java province (onset date 18 September); a 31-year-old man from Jakarta (onset date 24 September), and a 3-year-old boy from Jakarta (onset date 3 December). |
| 4 Jan 2010  | <b>Egypt</b> has reported outbreaks of H5N1, mostly in household poultry, between August and December 2009 in Assiut, Beheira, Beni Suef, Dakahlia, Fayoum, Gharbia, Kafr el Sheikh, Menoufiya, Menia, Port Said, Qaliyoubia, Sharkia, and Suez governorates through the SAIDR website. <sup>28</sup> |   |
| 5 Jan 2010  | <b>China Hong Kong SAR</b> reports a H5N1-positive Oriental Magpie Robin (resident species) in Hok Tau.   |   |
| 15 Jan 2010 | <b>India</b> reports outbreaks of H5N1 in backyard poultry in West Bengal state. (This is the first report of H5N1 in India since May of 2009.)   |   |
| 20 Jan      | <b>Bangladesh</b> reports   |   |

|             |   |   |
|-------------|---|---|
| 2010        | outbreaks of H5N1 in poultry in Rajshahi division. (This is the first report of H5N1 in Bangladesh since September of 2009.)  |   |
| 21 Jan 2010 | FAO published information indicating that 135 (7.0%) of villages under surveillance in <b>Indonesia</b> in December 2009 were positive for H5N1 in poultry. Infected villages were detected in South Kalimantan and Central Kalimantan provinces for the first time. <sup>24</sup>  |   |
| 24 Jan 2010 | <b>Viet Nam</b> reports outbreaks of H5N1 in poultry in Ha Tinh province.   |   |
| 26 Jan 2010 | <b>Israel</b> reports outbreaks of H5N1 in commercial poultry in Haifa. (This is the first report of H5N1 in Israel since January 2008.)  |   |
| 28 Jan 2010 | <b>India</b> reports additional outbreaks of H5N1 in backyard poultry in West Bengal state.<br><br><b>Viet Nam</b> reports outbreaks of H5N1 in poultry in 2 additional provinces, Dien Bien and Soc Trang.   | <b>Egypt</b> confirms its 91 <sup>st</sup> human case, in a 20-year-old woman from Beni Suef governorate (onset date 6 January 2010), its 92 <sup>nd</sup> human case, in a 1-year-old boy from Dakahlia governorate (onset date 7 January 2010), its 93 <sup>rd</sup> human case, in a 3-year-old boy from Assiut governorate (onset date 21 January 2010), and its 94 <sup>th</sup> human case, in a 45-year-old man from Sharkia governorate (onset date 19 January 2010). |
| 31 Jan 2010 | <b>Bangladesh</b> reports additional outbreaks of H5N1 in commercial poultry in Rajshahi division.  |   |
| 5 Feb 2010  | <b>Cambodia</b> reports outbreaks of H5N1 in poultry in Takeo province.<br><br><b>Myanmar</b> reports outbreaks of H5N1 in commercial chickens in Yangon region. (This is the first outbreak reported from Myanmar since December 2007.)<br><br><b>Nepal</b> reports outbreaks of H5N1 in backyard and commercial chickens and ducks in Gandaki zone. (This is the first outbreak reported from Nepal since February 2009.) |   |
| 8 Feb 2010  |   | <b>Egypt</b> confirms its 95 <sup>th</sup> human case, in a 40-year-old woman from Qaliyoubia governorate (onset date 31 January 2010) and its 96 <sup>th</sup> human case, in a 29-year-old woman from Menoufiya governorate (onset date 27 January 2010).   |
| 10 Feb      |   | <b>Egypt</b> confirms its 97 <sup>th</sup> human case, in a 37-year-old man from Helwan governorate (onset date 31 January  |

|             |  |  |
|-------------|--|--|
| 2010        |  | 2010).   |
| 11 Feb 2010 | <b>India</b> reports additional outbreaks of H5N1 in backyard poultry in West Bengal state.  |  |
| 12 Feb 2010 |  | <b>Indonesia</b> confirms its 163 <sup>rd</sup> human case, in a 25-year-old woman from Jakarta.   |
| 13 Feb 2010 | <b>Viet Nam</b> reports H5N1 in poultry in additional provinces (Ha Tinh, Kon Tum, Nam Dinh, Nge An, and Quang Tri).   |  |
| 17 Feb 2010 |  | <b>Egypt</b> confirms its 98 <sup>th</sup> human case, in a 32-year-old man from Ashmon district, Menoufiya governorate and its 99 <sup>th</sup> human case, in a 29-year-old woman from ElSadat district Menoufiya governorate (both had onset date 6 February 2010). |
| 18 Feb 2010 | <b>Egypt</b> has reported outbreaks of H5N1, mostly in household poultry, between 1 January and 10 February 2010 in Alexandria, Beheira, Beni Suef, Dakahlia, Fayoum, Gharbia, Helwan; Kafr el Sheikh, Menoufiya, Menia, Port Said, Qaliyoubia, Sharkia, and 6 <sup>th</sup> of October governorates through the SAIDR website. <sup>28</sup>                                  |  |
| 22 Feb 2010 | <b>Myanmar</b> reports additional outbreaks of H5N1, now in household poultry, in Yangon region.   |  |
| 23 Feb 2010 | <b>Bhutan</b> reports outbreaks of H5N1 in poultry in 2 villages in Chhukha district. This is the first ever report of H5N1 in Bhutan.   |  |
| 25 Feb 2010 | <b>Egypt</b> has reported outbreaks of H5N1, mostly in household poultry, between 11 and 25 February 2010 in Alexandria, Beheira, Beni Suef, Dakahlia, Damietta, Fayoum, Gharbia, Giza, Helwan, Ismailia, Kafr el Sheikh, Luxor, Menia, Menoufiya, New Valley, Qaliyoubia, Sharkia, 6 <sup>th</sup> of October, and Suez governorates through the SAIDR website. <sup>28</sup> |  |
| 2 Mar 2010  | <b>Bangladesh</b> reports outbreaks of H5N1 in poultry in Chittagong, Dhaka, and Rajshahi divisions.   |  |
| 3 Mar 2010  | <b>Viet Nam</b> reports outbreaks of H5N1 in poultry in Ca Mau, Ha Giang, Khanh Hoa, Nge An, and Tuyen Quang   |  |



|             |   |   |
|-------------|---|---|
|             | provinces.  |   |
| 4 Mar 2010  |   | <p><b>Egypt</b> confirms its 100<sup>th</sup> human case, in a 53-year-old man from Shobra Elkhima district, Qaliyoubia governorate (onset date 27 February), its 101<sup>st</sup> human case, in a 1-year-old boy from Banha district, Qaliyoubia governorate (onset date 22 February), its 102<sup>nd</sup> human case, in a 10-year-old boy from Meet Ghamr district, Dakahlia governorate (onset date 10 February), its 103<sup>rd</sup> human case, in a 30-year-old woman from Kellin District, Kafr el Sheikh governorate (onset date 10 February), and its 104<sup>th</sup> human case, in a 13-year-old boy from Kafr el Sheikh District, Kafr el Sheikh governorate (onset date 10 February).</p> <p><b>Viet Nam</b> confirms its 113<sup>th</sup> human case, in a 3-year-old girl from Ninh Hoa District, Khanh Hoa Province (onset date 27 January), its 114<sup>th</sup> human case, in a 38-year-old woman from Cai Be District, Tien Giang Province (onset date 13 February), and its 115<sup>th</sup> human case in a 17-year-old girl from Son Duong District, Tuyen Quang Province (onset date 19 February).</p> |
| 5 Mar 2010  | <b>Myanmar</b> reports outbreaks of H5N1 in poultry in a new region, Sagaing region.  |   |
| 12 Mar 2010 |   | <b>Egypt</b> confirms its 105 <sup>th</sup> human case, in a 20-year-old woman from El Khanka district, Qaliyoubia governorate (hospitalization date 5 March) and its 106 <sup>th</sup> human case, in a 1 ½ -year-old boy from El Hamool district, Kafr el Sheikh governorate (hospitalization date 2 March).  |
| 14 Mar 2010 | <b>Nepal</b> reports outbreaks of H5N1 in household poultry in 3 new zones (Lumbini, Narayani, and Rapti).  |   |
| 16 Mar 2010 | <b>Romania</b> reports outbreaks of H5N1 in backyard poultry in Tulcea province. (This is the first report of H5N1 in Romania since November 2007.) | <b>Viet Nam</b> confirms its 116 <sup>th</sup> human case, in a 25-year-old woman from Soc Son district, Hanoi (onset date 5 March).  |
| 24 Mar 2010 | <b>Viet Nam</b> reports outbreaks of H5N1 in poultry in Bac Ninh, Ben Tre, Nghe An, Quang Ninh, and Tuyen Quang provinces.                          |   |
| 25 Mar 2010 | <b>Bhutan</b> reports additional outbreaks of H5N1 in poultry in Chhukha district.  |   |
| 28 Mar 2010 | <b>Nepal</b> reports outbreaks of H5N1 in household poultry in 2 zones, Seti and Lumbini.   |   |
| 29 Mar 2010 |   | <b>Viet Nam</b> confirms its 117 <sup>th</sup> human case, in a 3-year-old girl from Thuan An district, Binh Duong province (onset date 5 March).   |
| 30 Mar 2010 | <b>Egypt</b> has reported outbreaks of H5N1, mostly in household poultry, from 26 February through 30 March 2010 in Alexandria, Aswan,              | <b>Egypt</b> confirms its 107 <sup>th</sup> human case, in a 30-year-old woman from Damietta district, Damietta governorate (onset date 28 March) and its 108 <sup>th</sup> human case, in a 4-year-old boy from Beba district, Beni Suef governorate (hospitalization date 18 March).  |

|             |  |   |
|-------------|--|---|
|             | Beni Suef, Dakahlia, Fayoum, Gharbia, Giza, Helwan, Kafr el Sheikh, Menia, Menoufiya, Qaliyoubia, Sharkia, 6 <sup>th</sup> of October, and Suez governorates through the SAIDR website. <sup>28</sup>  |   |
| 1 Apr 2010  | <b>Bulgaria</b> reports H5N1 in a wild common buzzard in Varna. (This is the first report of H5N1 in Bulgaria since 2006, previously also in a wild bird.)   |   |
| 7 Apr 2010  | <b>China Hong Kong SAR</b> reports a H5N1-positive barn swallow ( <i>Hirundo rustica</i> ) in Yuen Long. (This is the first report of H5N1 in Hong Kong since January 2010, also in a wild bird.)  |   |
| 9 Apr 2010  |  | <b>Egypt</b> confirms its 109 <sup>th</sup> human case, in an 18-year-old woman from Etsa district, Fayoum governorate (onset date 31 March).   |
| 10 Apr 2010 | <b>Viet Nam</b> reports outbreaks of H5N1 in poultry in Bac Kan and Quang Ninh provinces.  |   |
| 21 Apr 2010 |  | <b>Viet Nam</b> confirms its 118 <sup>th</sup> human case, in a 22-year-old man from Nhu Co commune (onset date 28 March), and its 119 <sup>th</sup> human case, in a 2-year-old girl from Cho Moi district (onset date 2 April), both in Bac Kan province.               |
| 25 Apr 2010 | <b>Bangladesh</b> reports continued outbreaks of H5N1 in commercial and backyard poultry in Chittagong, Dhaka, and Rajshahi divisions.   |   |
| 29 Apr 2010 | <b>Viet Nam</b> reports outbreaks of H5N1 in poultry in Quang Ngai, Quang Ninh, and Quang Tri provinces.   |   |
| 1 May 2010  | <b>Cambodia</b> reports outbreaks of H5N1 in village poultry in Prey Veng province.  |   |
| 4 May 2010  |  | <b>Cambodia</b> confirms its 10 <sup>th</sup> human case, in a 27-year-old man from Prey Veng province (onset date 13 April). This is the first human case reported from Cambodia since December 2009.  |
| 6 May 2010  | <b>Egypt</b> has reported outbreaks of H5N1, mostly in household poultry, from 31 March through 6 May 2010 in Beheira, Beni Suef, Dakahlia, Damietta, Fayoum, Gharbia, Helwan, Kafr el Sheikh, Luxor, Menia, Menoufiya, Port Said, Qaliyoubia, Qena, 6 <sup>th</sup> of October, and Suez governorates through the | <b>Indonesia</b> confirms its 164 <sup>th</sup> human case, in a 45-year-old woman from Malang city in East Java province (onset date 22 February) and its 165 <sup>th</sup> human case, in a 4-year-old girl from Pekanbaru city in Riau province (onset date 19 April). |

|             |   |  |
|-------------|---|--|
|             | SAIDR website. <sup>28</sup><br><br><b>Israel</b> reports H5N1 in a variety of birds, including emus, in a minizoo in Hadarom.  |  |
| 10 May 2010 | <b>Mongolia</b> reports H5N1 in wild whooper swans ( <i>Cygnus cygnus</i> ) and greylag geese ( <i>Anser anser</i> ) in Sukhbaatar. (This is the first report of H5N1 in Mongolia since August 2009.)   |  |
| 14 May 2010 | <b>Lao PDR</b> reports H5N1 in commercial poultry in Vientiane. (This is the first report of H5N1 from Lao PDR since February 2009.)  |  |
| 15 May 2010 | FAO published information indicating that, during March 2010, the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 1.5 newly found infected villages per 1000 villages in the coverage area, with incidence rates varying widely among provinces. Incidence rates were highest in Kepulauan Bangka Belitung, Yogyakarta, Lampung, and Jambi provinces. <sup>24</sup>     |  |
| 20 May 2010 | <b>Bangladesh</b> reports H5N1 in poultry in Rajshahi division.   |  |
| 28 May 2010 | <b>Egypt</b> has reported outbreaks of H5N1, mostly in household poultry, from 7 May through 28 May 2010 in Beheira, Beni Suef, Cairo, Dakahlia, Fayoum, Gharbia, Helwan, Luxor, Menoufiya, Port Said, Sharkia, and 6 <sup>th</sup> of October governorates through the SAIDR website. <sup>28</sup>  |  |
| 4 Jun 2010  | FAO published information indicating that, during April 2010, the overall HPAI incidence in <b>Indonesia</b> based on Participatory Disease Surveillance and Response (PDSR) village-level surveillance was 1 newly found infected village per 1000 villages in the coverage area, with incidence rates continuing to vary widely among provinces. Incidence rates were highest in Bangka Belitung, Yogyakarta, |  |

|             |  |  |
|-------------|--|--|
|             | Lampung, and Central Java provinces. <sup>242</sup>  |  |
| 8 Jun 2010  |  | <b>China</b> confirms its 39 <sup>th</sup> human case, in a 22-year-old woman from Hubei province (onset date 23 May). This is the first human case reported from China since February 2009. |
| 25 Jun 2010 | <b>The Russian Federation</b> reports H5N1 in wild birds in the Tyva republic. (This is the first report of H5N1 in the Russian Federation since November 2009, also in a wild bird.)  |  |
| 1 Jul 2010  | FAO published the occurrence of H5N1 in poultry in Narayanganj district, Dhaka division, <b>Bangladesh</b> . <sup>24</sup><br><br>FAO published the occurrence of H5N1 in poultry in Thai Nguyen City, Thai Nguyen province, <b>Viet Nam</b> . <sup>24</sup>   |  |
| 2 Jul 2010  | <b>China</b> reports H5N1 in wild birds in Shuanglu district, Tibet Autonomous Region. (This is the first report of H5N1 in China since June 2009, in Qinghai province, also in wild birds.)   |  |
| 5 Jul 2010  |  | <b>Indonesia</b> confirms its 166 <sup>th</sup> human case, in a 34-year-old woman from South Jakarta district, Jakarta (onset date 25 May).   |
| 8 Jul 2010  | FAO published information indicating that, during May 2010, the overall HPAI incidence in <b>Indonesia</b> based on Participatory Disease Surveillance and Response (PDSR) village-level surveillance was 0.6 per 1000 villages under surveillance. This month, there was very little variation in incidence between provinces and few newly infected villages reported. The highest incidence occurred in Yogyakarta. New outbreaks were identified in 9 out of 23 provinces visited in Sumatra, Java and Kalimantan Islands. <sup>24</sup> |  |
| 11 Jul 2010 | <b>Egypt</b> has reported outbreaks of H5N1, mostly in household poultry, from 30 May through 11 July 2010 in Dakahlia, Damietta, Fayoum, Gharbia, Menia, Menoufiya, Qaliyoubia, ,6 <sup>th</sup> of October,  |  |

|              |  |   |
|--------------|--|---|
|              | and Suez governorates through the SAIDR website. <sup>28</sup>   |   |
| 22 Jul 2010  |  | <b>Indonesia</b> confirms its 167 <sup>th</sup> human case, in a 13-year-old girl from Sukoharjo district, Central Java province (onset date 16 June).              |
| 29 Jul 2010  | FAO published the occurrence of H5N1 in poultry in Ia Grai district, Gia Lai province, <b>Viet Nam</b> . <sup>24</sup>   | <b>Egypt</b> confirms its 110 <sup>th</sup> human case, in a 20-year-old woman from Shobra Elkhima district, Qaliyoubia governorate (Hospitalization date 21 July). |
| 3 Aug 2010   |  | <b>Indonesia</b> confirms its 168 <sup>th</sup> human case, in a 34-year-old woman from Tangerang district, Banten province (onset date 2 July).                    |
| 12 Aug 2010  |  | <b>Egypt</b> confirms its 111 <sup>th</sup> human case, in a 2-year-old girl from El Salam district, Cairo governorate onset date 2 August).                        |
| 17 Aug 2010  | <b>Viet Nam</b> reports H5N1 in poultry in Dak Lak, Quang Nam, and Thai Nguyen provinces (event dates in May-June 2010), and confirms Gia Lai outbreak reported by FAO in July.  |   |
| 19 Aug 2010  | FAO published information indicating that, during June 2010, the overall HPAI incidence in <b>Indonesia</b> based on Participatory Disease Surveillance and Response (PDSR) village-level surveillance was 0.4 per 1000 villages under surveillance. There was very little variation in incidence between provinces and few newly infected villages reported. The highest incidence occurred in Yogyakarta. New outbreaks were identified in Java, Kalimantan, Sulawesi and Sumatra. <sup>24</sup> |   |
| 27 Aug 2010  | <b>Egypt</b> has reported outbreaks of H5N1, from 12 July through 27 August 2010, in poultry in Beni Suef and Menoufiya governorates through the SAIDR website. <sup>28</sup>  |   |
| 31 Aug 2010  |  | <b>Egypt</b> confirms its 112 <sup>th</sup> human case, in a 33-year-old woman from Qaliyoubia governorate (onset date 17 August).                                  |
| 23 Sept 2010 | FAO published information indicating that, during July 2010, the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 0.5 per 1000 villages under surveillance. The highest incidence occurred in Bengkulu (Sumatra). New outbreaks were identified in Lampung,   |   |

|             |  |   |
|-------------|--|---|
|             | Aceh, Sumatra (West and South), Java, Kalimantan and Sulawesi. <sup>24</sup>   |   |
| 7 Oct 2010  | <p>FAO published information indicating that, during August 2010, the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 0.6 per 1000 villages under surveillance. The highest incidence occurred in Bengkulu province (Sumatra). New outbreaks were identified in Java, East and West Kalimantan provinces, and South Sulawesi and southern Sumatra provinces. <sup>24</sup></p> <p>FAO published information indicating that, during September through 3 October, outbreaks of H5N1 have occurred in <b>Egypt</b> in Beni Suef, Dakahlia, Fayoum, Giza, Menoufiya, and Qaliyoubia governorates. <sup>24</sup></p> |   |
| 18 Oct 2010 |  | <b>Indonesia</b> confirms its 169 <sup>th</sup> human case, in a 35-year-old man from West Jakarta, Jakarta province (onset date 16 August) and its 170 <sup>th</sup> human case in a 40-year-old woman from Kota Depok, West Java province (onset date 9 September). |
| 21 Oct 2010 | FAO published information indicating that outbreaks of H5N1 have occurred in poultry in <b>Egypt</b> in Alexandria, Beni Suef, Dakahlia, Fayoum, Gharbia, Kafr el Sheikh, Luxor, Menoufiya and 6 <sup>th</sup> of October governorates in October. <sup>24</sup>   |   |
| 28 Oct 2010 | FAO published information indicating that H5N1 virus was found in wild duck droppings during routine surveillance in Hokkaido prefecture, <b>Japan</b> , in October 2010. <sup>24</sup>  |   |
| 4 Nov 2010  | FAO published information indicating that outbreaks of H5N1 have occurred in poultry in <b>Egypt</b> in Fayoum, Gharbia, Menoufiya, Qena, and Sharkia governorates in October. <sup>24</sup>   |   |
| 18 Nov 2010 | FAO published information indicating that outbreaks of H5N1 have occurred in poultry in <b>Egypt</b> in Beni Suef, Gharbia, Menoufiya,   |   |

|             |  |  |
|-------------|--|--|
|             | Qaliyoubia, Qena, and 6 <sup>th</sup> of October governorates in November. <sup>24</sup>   |  |
| 19 Nov 2010 |  | <b>China</b> confirms its 40 <sup>th</sup> human case, in 59-year-old woman from <b>Hong Kong SAR</b> (onset date 2 November). Prior to implementing the current WHO system for counting cases of avian influenza H5N1 infections in humans, China Hong Kong SAR had reported 20 human cases (18 in 1997 and 2 in 2003; these 20 cases are not reported in the WHO cumulative table <sup>30</sup> ). |
| 30 Nov 2010 | <b>Japan</b> reports H5N1 in commercial poultry in Yasugi city, Shimane prefecture. This is the first outbreak of H5N1 in Japanese poultry since 2007, although wild birds with H5N1 infection were reported in Japan in 2009.   |  |
| 2 Dec 2010  | FAO published information indicating that outbreaks of H5N1 have occurred in poultry in <b>Egypt</b> in Alexandria, Dakahlia, and Gharbia governorates in November. <sup>24</sup><br><br>FAO published information indicating that, during September 2010, the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 0.7 per 1000 villages under surveillance. The highest incidence occurred in Yogyakarta. <sup>24</sup> |  |
| 4 Dec 2010  | <b>Viet Nam</b> reports H5N1 in poultry in Nam Dinh and Nghe An provinces. (This is the first report of H5N1 from Viet Nam since July 2010.)   |  |
| 5 Dec 2010  | <b>Nepal</b> reports H5N1 in commercial poultry in Chitwan, Narayani zone. (This is the first report of H5N1 from Nepal since March 2010.)   |  |
| 8 Dec 2010  | FAO published the occurrence of H5N1 in poultry in Ngoc Hien District, Ca Mau province, <b>Viet Nam</b> . <sup>24</sup>  | <b>Egypt</b> confirms its 113 <sup>th</sup> human case, in a 30-year-old woman from Gharbia governorate (onset date 28 November).  |
| 9 Dec 2010  | <b>Republic of Korea</b> reports H5N1 in a wild bird in Iksan City, Jeollabuk-do. (This is the first report of H5N1 from the Republic of Korea since May 2008.)  | <b>Indonesia</b> confirms its 171 <sup>st</sup> human case, in a 21-year-old woman from Bandung City, West Java province (onset date 14 November).   |
| 14 Dec 2010 | <b>Republic of Korea</b> reports H5N1 in a wild bird in Seosan City,   |  |

|             |  |   |
|-------------|--|---|
|             | Chungcheongnam-do.   |   |
| 15 Dec 2010 | <b>Egypt</b> reports H5N1, mostly in household poultry, between the end of November to mid-December in Dakahlia, Fayoum, Gharbia, Kafr el Sheikh, Menia, Menoufiya, and Qaliyoubia governorates through the SAIDR website. <sup>28</sup> |   |
| 20 Dec 2010 | <b>Japan</b> reports H5N1 in captive wild birds in a park zoo in Takaoka City, Toyama prefecture.  |   |
| 21 Dec 2010 | <b>Japan</b> reports H5N1 in a wild bird in a bird sanctuary in Tottori prefecture.  |   |
| 22 Dec 2010 | <b>Japan</b> reports H5N1 in a migratory wild bird in Izumi City, Kagoshima prefecture.<br><br><b>China Hong Kong SAR</b> reports H5N1 in a chicken found on Lantau Island.  |   |
| 29 Dec 2010 |  | <b>Egypt</b> confirms its 114 <sup>th</sup> human case, in a 28-year-old woman from Beheira governorate (onset date 12 December) and its 115 <sup>th</sup> human case in an 11-year-old girl from Luxor governorate (onset date 18 December).   |
| 2 Jan 2011  | <b>Republic of Korea</b> reports H5N1 in wild birds in Sacheon city, Gyeongsangnam-do and Haenam-gun, Jeollanam-do and in poultry in Cheonan City, Chungcheongnam-do and Iksan City, Jeollabuk-do.                                       |   |
| 5 Jan 2011  | FAO published information indicating that, during November 2010, the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 0.6 per 1000 villages under surveillance. <sup>24</sup>                     | <b>Egypt</b> confirms its 116 <sup>th</sup> human case, in a 56-year-old woman from Sharkia governorate (onset date 22 December); its 117 <sup>th</sup> human case in a 25-year-old woman from Qena governorate (onset date 19 December); its 118 <sup>th</sup> human case, in a 27-year-old man from Ismailia governorate (onset date 23 December); and its 119 <sup>th</sup> case, in a 40-year old man from Dakahlia governorate (onset date 25 December). |
| 7 Jan 2011  | <b>Republic of Korea</b> reports H5N1 in poultry in Yeongam-gun, Jeollanam-do and in a wild bird in in Sacheon city, Gyeongsangnam-do.   |   |
| 10 Jan 2011 | <b>Bangladesh</b> reports H5N1 in commercial poultry in Dhaka division. (This is the first report of H5N1 in Bangladesh since May 2010.)   |   |
| 13 Jan 2011 |  | <b>Egypt</b> confirms its 120 <sup>th</sup> human case, in a 10-year-old boy from Giza governorate (onset date 5 January).  |
| 16 Jan 2011 | <b>Egypt</b> reports H5N1, mostly in household poultry, in the first half of January in  |   |



|             |  |  |
|-------------|--|--|
|             | Dakahlia, Fayoum, Gharbia, Luxor, Menia, Menoufiya, Qaliyoubia, Qena, Sharkia, and 6 <sup>th</sup> of October governorates through the SAIDR website. <sup>28</sup>  |  |
| 17 Jan 2011 | <b>Republic of Korea</b> reports 23 outbreaks of H5N1 in poultry in Chungcheongnam-do, Gyeonggi-do, and Jeollanam-do.  |  |
| 18 Jan 2011 | <b>Myanmar</b> reports H5N1 in poultry in Sittwe, Rakhine state. (This is the first report of H5N1 in Myanmar since March 2010.)<br>FAO published the occurrence of H5N1 also in a second farm in Rakhine state. <sup>24</sup>   |  |
| 19 Jan 2011 | <b>Japan</b> reports H5N1 in wild birds in Izumi City, Kagoshima prefecture and Koriyama City, Fukushima prefecture.   |  |
| 20 Jan 2011 |  | <b>Egypt</b> confirms its 121 <sup>st</sup> human case, in a 1-year-old boy from Alexandria governorate (onset date 12 January). |
| 21 Jan 2011 | <b>China Hong Kong SAR</b> reports H5N1 in wild birds on Lantau Island and in Yuen Long.   |  |
| 23 Jan 2011 | <b>Japan</b> reports H5N1 in several species of wild birds in Hokkaido prefecture and 2 outbreaks of H5N1 in poultry in Miyazaki prefecture.   |  |
| 28 Jan 2011 | <b>China Hong Kong SAR</b> reports additional H5N1 in wild birds and in chicken carcasses found on Lantau Island.<br><br><b>Myanmar</b> reports H5N1 in poultry on multiple farms and in markets in Sittwe, Rakhine state.<br><br><b>Republic of Korea</b> reports 14 additional outbreaks of H5N1 in poultry in Chungcheongnam-do, Gyeonggi-do, Gyeongsangbuk-do, and Jeollanam-do. |  |
| 31 Jan 2011 | <b>Egypt</b> reports H5N1, mostly in household poultry, in the second half of January in Dakahlia, Fayoum, Gharbia, Kafr el Sheikh, Menia, Menoufiya, Sharkia, and 6 <sup>th</sup>   |  |

|             |  |   |
|-------------|--|---|
|             | <p>of October governorates through the SAIDR website.<sup>28</sup></p> <p><b>China Hong Kong SAR</b> reports H5N1 in additional chicken carcasses found on Lantau Island.</p>  |   |
| 2 Feb 2011  | <b>Japan</b> reports 5 outbreaks of H5N1 in poultry in Aichi, Miyazaki, and Kagoshima prefectures.   | <b>Egypt</b> confirms its 122 <sup>nd</sup> human case, in a 7-year-old boy from Gharbia governorate (onset date 20 January).   |
| 3 Feb 2011  | <b>Bangladesh</b> reports H5N1 in poultry in Narayangonj district, Dhaka division.   |   |
| 4 Feb 2011  | <p><b>Japan</b> reports H5N1 in wild birds in Fukushima, Hokkaido, Hyogo, Kochi, Shimane, and Tottori prefectures.</p> <p><b>Myanmar</b> reports H5N1 in poultry in Shwebo, Sagaing region.</p>  |   |
| 7 Feb 2011  | <p><b>China Hong Kong SAR</b> reports H5N1 in an additional poultry carcass found on Lantau Island.</p> <p><b>Cambodia</b> reports H5N1 in village poultry in Kandal province. (This is the first report of H5N1 in Cambodia since May 2010.)</p>  |   |
| 9 Feb 2011  | <p><b>Japan</b> reports 4 outbreaks of H5N1 in poultry in Miyazaki and Oita prefectures.</p> <p>FAO published information indicating that, during December 2010, the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance in 1662 villages was 1.2 per 1000 villages under surveillance.<sup>24</sup></p> | <b>Cambodia</b> confirms its 11 <sup>th</sup> human case, in a 5-year-old girl from Phnom Penh (onset date 29 January). This is the first human case reported from Cambodia since May 2010. |
| 11 Feb 2011 | <b>Republic of Korea</b> reports an additional outbreak of H5N1 in poultry in Gyeonggi-do.   |   |
| 13 Feb 2011 | <b>Bangladesh</b> reports outbreaks of H5N1 in commercial poultry in Rangpur division and additional outbreaks in commercial poultry in Dhaka division.  |   |
| 14 Feb 2011 | <b>Japan</b> reports H5N1 in wild birds in Hokkaido, Miyazaki, Nagasaki and Yamaguchi prefectures.   |   |
| 17 Feb      | <b>India</b> reports H5N1 in   |   |

|             |  |  |
|-------------|--|--|
| 2011        | <p>poultry in Tripura state. (This is the first report of H5N1 in India since February 2010.)</p> <p><b>Japan</b> reports 3 additional outbreaks of H5N1 in poultry in Miyazaki prefecture.</p>  |  |
| 18 Feb 2011 | <b>Republic of Korea</b> reports 2 additional outbreaks of H5N1 in poultry in Gyeonggi-do.   |  |
| 23 Feb 2011 | <b>Viet Nam</b> reports H5N1 in poultry in Ca Mau, Kon Tum, Lang Son and Nam Dinh provinces.   |  |
| 24 Feb 2011 | <p><b>Bangladesh</b> reports outbreaks of H5N1 in commercial poultry in Chittagong, Khulna, and Sylhet divisions and additional outbreaks in commercial poultry in Dhaka and Rangpur divisions.</p> <p><b>Japan</b> reports H5N1 in wild birds in Fukushima, Hokkaido, Hyogo, Kagoshima, Kyoto, Miyazaki, Nagasaki, Oita, Tochigi, Tokushima, and Yamaguchi prefectures, and 4 outbreaks of H5N1 in poultry in Aichi, Mie, Miyazaki, and Wakayama prefectures.</p> |  |
| 25 Feb 2011 |  | <b>Cambodia</b> confirms its 12 <sup>th</sup> and 13 <sup>th</sup> human cases, in a 19-year-old woman and her 11-month-old son. The family lived in Banteay Meanchey province, but they were believed to have been exposed to sick poultry in Prey Veng province. Both had disease onset on 5 February.   |
| 28 Feb 2011 | <b>Egypt</b> reports H5N1, mostly in household poultry, in February in Beheira, Beni Suef, Dakahlia, Fayoum, Gharbia, Kafr el Sheikh, Menia, Menoufiya, and 6 <sup>th</sup> of October governorates through the SAIDR website. <sup>28</sup>   | <b>Egypt</b> confirms its 123 <sup>rd</sup> human case, in a 26-year old woman from Dakahlia governorate (onset date 18 January), its 124 <sup>th</sup> human case, in a 45-year-old man from Menoufiya governorate (onset date 20 January), and its 125 <sup>th</sup> human case, in a 4-year-old boy from Damietta governorate (onset date 14 February). |
| 2 Mar 2011  |  | <b>Indonesia</b> confirms its 172 <sup>nd</sup> human case, in a 26-year-old woman from Karawang district, West Java province (onset date 30 January).   |
| 3 Mar 2011  | <p><b>West Bank/Gaza Strip</b> reports H5N1 in poultry in Jenin, West Bank. (This is the first report of H5N1 in West Bank since April 2006.)</p> <p><b>Japan</b> reports H5N1 in wild birds in Hokkaido, Hyogo, Miyazaki, Nagasaki, and Tottori prefectures.</p>  |  |

|               |  |   |
|---------------|--|---|
| 4 Mar 2011    | <p><b>Myanmar</b> reports additional outbreaks of H5N1 in poultry in Shwebo, Sagaing region.</p> <p><b>China Hong Kong SAR</b> reports H5N1 in an additional poultry carcass found on Lantau Island.</p> <p><b>Republic of Korea</b> reports 5 additional outbreaks of H5N1 in poultry in Gyeonggi-do, Gyeongsangnam-do, and Jeollanam-do.</p> |   |
| 6 Mar 2011    | <b>Bangladesh</b> reports 29 outbreaks of H5N1 in Barisal, Chittagong, Dhaka, Khulna, and Rajshahi divisions.  |   |
| 7 Mar 2011    | <p><b>India</b> reports an additional outbreak of H5N1 in poultry in Tripura state.</p> <p><b>Israel</b> reports an outbreak of H5N1 in poultry in Jehuda &amp; Samaria. (This is the first report of H5N1 in Israel since May 2010.)</p>  | <b>Egypt</b> confirms its 126 <sup>th</sup> human case, in a 32-year old woman from Sharkia governorate (onset date 10 February), and its 127 <sup>th</sup> human case, in a 2-year-old boy from Kafr el Sheikh governorate (onset date 18 February).                   |
| 8 Mar 2011    | <b>Viet Nam</b> reports H5N1 in poultry in Ha Nam and Quang Ninh provinces.  |   |
| 10 Mar 2011   |  | <b>Egypt</b> confirms its 128 <sup>th</sup> human case, in a 17-year old woman from Beheira governorate (onset date 27 February), and its 129 <sup>th</sup> human case, in a 17-year-old woman from Dakahlia governorate (onset date 24 February).                      |
| 11 March 2011 | <b>Japan</b> reports H5N1 in poultry on farms in Mie, Mayizaki, and Nara prefectures.  |   |
| 14 March 2011 |  | <b>Indonesia</b> confirms its 173 <sup>rd</sup> human case, in a 2-year-old boy from Depok City, West Java province (onset date 3 February) and its 174 <sup>th</sup> human case, in a 31-year-old woman from Bekasi City, West Java province (onset date 23 February). |
| 15 March 2011 |  | <b>Egypt</b> confirms its 130 <sup>th</sup> human case, in a 38-year-old woman from Ismailia governorate (onset date 1 March)   |
| 16 March 2011 | <b>Japan</b> reports H5N1 in wild birds in Aomori and Shimane prefectures.   | <b>Bangladesh</b> confirms its 2 <sup>nd</sup> human case, in a 1-year-old girl from Kamalapur, Dhaka district, Dhaka division (onset date 8 March). This is the first human case reported in Bangladesh since May of 2008.   |
| 17 March 2011 | <p><b>Republic of Korea</b> reports 2 additional outbreaks of H5N1 in poultry in Chungcheongnam-do and Gyeonggi-do.</p> <p>FAO published information indicating that, during January 2010, the overall HPAI incidence in <b>Indonesia</b></p>  |   |

|               |  |   |
|---------------|--|---|
|               | based on PDSR village-level surveillance was 1.9 per 1000 villages under surveillance. The highest HPAI incidence occurred in Yogyakarta (29.7 per 1,000 villages). <sup>24</sup>  |   |
| 23 March 2011 | <b>Japan</b> reports H5N1 in poultry on farms in Chiba prefecture.<br><br><b>Myanmar</b> reports an additional outbreak of H5N1 in poultry in Shwebo, Sagaing region.  |   |
| 24 March 2011 | <b>Bangladesh</b> reports 67 outbreaks of H5N1 in poultry in Barisal, Chittagong, Dhaka, Khulna, Rajshahi, and Dhaka division.   |   |
| 25 March 2011 |  | <b>Indonesia</b> confirms its 175 <sup>th</sup> human case, in a 2-year-old girl from Bekasi City, West Java province (onset date 2 March).   |
| 28 March 2011 | <b>Republic of Korea</b> reports an additional outbreak of H5N1 in poultry in Gyeongsangbuk-do.  |   |
| 29 March 2011 |  | <b>Egypt</b> confirms its 131 <sup>st</sup> human case, in a 32-year old man from Suez governorate (onset date 8 March), its 132 <sup>nd</sup> human case, in a 28-year-old woman from Giza governorate (onset date 8 March) and its 133 <sup>rd</sup> human case, in a 4-year-old boy from Beheira governorate (onset date 5 March). |
| 30 March 2011 | <b>Viet Nam</b> reports H5N1 in poultry in Binh Dinh, Hai Phong, Nam Dinh, Nghe An, Quang Ngai, and Quang Tri provinces.   |   |
| 31 March 2011 | FAO published information indicating that, during February 2010, the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 2.5 per 1000 villages under surveillance. The highest HPAI incidence occurred in Yogyakarta (38.8 per 1000 villages). Over the past 12 months, the overall HPAI incidence was 15.7 per 1,000 villages, with the highest incidence in Yogyakarta (232.9 per 1000), followed by Lampung province (66.3 per 1000), Bengkulu province (47.5 per 1000), and Bangka Belitung province (23.9 per 1000). <sup>24</sup><br><br>FAO published the occurrence of 9 outbreaks of H5N1 in poultry in |   |

|               |   |   |
|---------------|---|---|
|               | Beni Suef, Fayoum, Gharbia, Menofia, and Qena governorates of <b>Egypt</b> between 20 and 28 March 2011. <sup>24</sup>  |   |
| 1 April 2011  |   | <b>Indonesia</b> confirms its 176 <sup>th</sup> human case, in a 28-year-old woman from Gunung Kidul district, Yogyakarta (onset date 1 March).   |
| 6 April 2011  |   | <b>Egypt</b> confirms its 134 <sup>th</sup> human case, in a 1-year-old boy from Beheira governorate (onset date 14 February), its 135 <sup>th</sup> human case, in a 3-year-old girl from Beheira governorate (onset date 10 March), its 136 <sup>th</sup> human case, in a 34-year-old woman from Alexandria governorate (onset date 9 March), and its 137 <sup>th</sup> case, in a 30-year-old woman from Kafr el Sheikh governorate (onset date 7 March).<br>There was no epidemiological link between the 2 cases from Beheira.  |
| 7 April 2011  | FAO published the occurrence of 8 outbreaks of H5N1 in poultry in Fayoum, Helwan, Menia, Menoufiya, Qena, 6 <sup>th</sup> of October, and Sohag governorates of <b>Egypt</b> between 28 March and 2 April 2011. <sup>24</sup> |   |
| 8 April 2011  | <b>Japan</b> reports H5N1 in a wild bird in Aichi prefecture.   |   |
| 11 April 2011 | <b>Israel</b> reports H5N1 in a wild bird in Jehuda & Samaria.  | <b>Cambodia</b> confirms its 14 <sup>th</sup> human case, in an 11-year-old girl from Kampong Cham province (onset date 22 March).<br><br><b>Egypt</b> confirms its 138 <sup>th</sup> human case, in a 20-year-old woman from Beheira governorate (onset date 14 March), its 139 <sup>th</sup> human case, in a 2-year-old girl from Menoufiya governorate (onset 26 March), its 140 <sup>th</sup> human case in a 55-year-old woman from Beheira governorate (onset date 20 March), and its 141 <sup>st</sup> human case, in a 1-year-old boy from Fayoum governorate (onset date 20 March).<br><br><b>Bangladesh</b> confirms its 3 <sup>rd</sup> human case, in a 2-year-old boy from Dhaka district, Dhaka division (onset date 1 March). This case had no epidemiological link with the previous case reported from Dhaka on 16 March. |
| 14 April 2011 | FAO published the occurrence of 9 outbreaks of H5N1 in poultry in Beheira, Damietta, Kafr el Sheikh, Menoufiya, and 6 <sup>th</sup> of October governorates of <b>Egypt</b> between 4 and 11 April 2011. <sup>24</sup>        |   |
| 18 April 2011 | <b>Viet Nam</b> reports 7 outbreaks of H5N1 in village poultry in Bac Kan, Dak Lak, Ha Nam, Quang Ngai and Tien Giang provinces.  |   |

|               |  |   |
|---------------|--|---|
|               | <b>Republic of Korea</b> reports an additional outbreak of H5N1 in poultry in Gyeongsangbuk-do.  |   |
| 19 April 2011 | <b>Mongolia</b> reports H5 in wild swans at Zegst Lake, Sukhbaatar. (This is the first report of H5N1 in Mongolia since May 2010.)   |   |
| 21 April 2011 | <b>Bangladesh</b> reports 31 outbreaks of H5N1 in poultry in Barisal, Chittagong, Dhaka, Rajshahi, and Rangpur divisions.<br><br><b>Viet Nam</b> reports an outbreak of H5N1 in village poultry in Quang Tri province.   | <b>Cambodia</b> confirms its 15 <sup>th</sup> human case, in a 5-year-old girl from Prey Veng province (onset date 11 April).<br><br><b>Egypt</b> confirms its 142 <sup>nd</sup> human case, in a 29-year-old man (onset date 1 April) and its 143 <sup>rd</sup> human case, in a 1 1/2 –year-old boy (onset date 9 April), both from Fayoum governorate. No epidemiological link between these cases was identified. |
| 26 April 2011 | <b>Viet Nam</b> reports an outbreak of H5N1 in village poultry in Vinh Long province.<br><br><b>Indonesia</b> reports 18 outbreaks of H5N1 in village poultry in Gorontalo province. Although Indonesia is considered endemic for H5N1 in poultry, this is the first report of H5N1 in Gorontalo province since June 2007. |   |
| 5 May 2011    | FAO published the occurrence of 10 outbreaks of H5N1 in poultry in Beheira, Beni Suef, Fayoum, Luxor, Menoufiya, Sharkia and Sohag governorates of <b>Egypt</b> between 14 and 28 April 2011. <sup>24</sup>  |   |
| 12 May 2011   | <b>Bangladesh</b> reports 3 outbreaks of H5N1 in commercial poultry in Dhaka district, Dhaka division.<br><br>FAO published the occurrence of 8 outbreaks of H5N1 in poultry in Dakahlia, Damietta, Fayoum, Menoufiya and Port Said governorates of <b>Egypt</b> between 2 and 7 May 2011. <sup>24</sup>                   |   |
| 13 May 2011   | <b>Japan</b> reports H5N1 in wild birds in Shimane and Tochigi prefectures.  | <b>Indonesia</b> confirms its 177 <sup>th</sup> human case, in an 8-year-old girl from Jakarta (onset date 4 April).  |
| 16 May 2011   | <b>Viet Nam</b> reports 4 outbreaks of H5N1 in village poultry in Lang Son, Quang Ngai, and Vinh Long provinces.   |   |
| 26 May 2011   | FAO published the occurrence of 14 outbreaks of H5N1 in poultry in Beni  |   |

|              |   |   |
|--------------|---|---|
|              | Suef, Fayoum, Menoufiya, Qaliyoubia and Sharkia governorates of <b>Egypt</b> between 9 and 22 May 2011. <sup>24</sup>   |   |
| 31 May 2011  | <b>Republic of Korea</b> reports an outbreak of H5N1 in poultry in Gyeonggi-do.   |   |
| 1 June 2011  |   | <b>Egypt</b> confirms its 144 <sup>th</sup> human case, in a 30-year-old woman from Alexandria governorate (onset date 26 April).   |
| 3 June 2011  |   | <b>Indonesia</b> confirms its 178 <sup>th</sup> human case, in a 1-year-old girl from Jakarta (onset date 3 April).   |
| 7 June 2011  | <b>Viet Nam</b> reports an additional outbreak of H5N1 in village poultry in Lang Son province.   |   |
| 10 June 2011 |   | <b>Cambodia</b> confirms its 16 <sup>th</sup> human case, in a 7-year-old girl from Prey Veng province (onset date 24 May).   |
| 16 June 2011 | FAO published the occurrence of 24 outbreaks of H5N1 in poultry in Alexandria, Beheira, Beni Suef, Dakahlia, Damietta, Fayoum, Gharbia, Giza, Menia, Menoufiya, Qaliyoubia, and Sharkia governorates of <b>Egypt</b> between 21 May and 11 June 2011. <sup>24</sup>             | <b>Egypt</b> confirms its 145 <sup>th</sup> human case, in a 40-year-old woman from Aswan governorate (onset date 14 May), its 146 <sup>th</sup> human case, in a 21-year-old woman from Menoufiya governorate (onset date 21 May), its 147 <sup>th</sup> human case, in a 31-year-old man from Qaliyoubia governorate (onset date 21 May), its 148 <sup>th</sup> human case, in a 32-year-old man from Cairo governorate (onset date 23 May), and its 149 <sup>th</sup> human case, in a 16-year-old boy from Menoufiya governorate (onset date 21 May). |
| 22 June 2011 |   | <b>Egypt</b> confirms its 150 <sup>th</sup> human case, in a 27-year-old man from Qena governorate (onset date 5 June).   |
| 23 June 2011 | FAO published the occurrence of 13 outbreaks of H5N1 in poultry in Dakahlia, Damietta, Giza, Menoufiya, and Qaliyoubia governorates of <b>Egypt</b> between 13 and 18 June 2011. <sup>24</sup>  |   |
| 30 June 2011 | FAO published the occurrence of 10 outbreaks of H5N1 in poultry in Beheira, Dakahlia, Damietta, Gharbia, Giza, and Qaliyoubia governorates of <b>Egypt</b> between 12 and 24 June 2011. <sup>24</sup>   |   |
| 7 July 2011  | <b>Bangladesh</b> reports 1 outbreak of H5N1 in commercial poultry in Khulna division.<br><br>FAO published the occurrence of 8 outbreaks of H5N1 in poultry in Damietta, Gharbia, Giza, and Qaliyoubia governorates of <b>Egypt</b> between 26 and 30 June 2011. <sup>24</sup> |   |



|               |  |   |
|---------------|--|---|
|               | <p>FAO published information indicating that the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 2.8 per 1000 villages under surveillance during March 2011 and 3.3 per 1000 during April. Over the past 12 months (from April), the overall HPAI incidence was 19.7 per 1000 villages, with the highest incidence in Yogyakarta (237.4 per 1000), followed by Lampung province (59.1 per 1000), and West Sumatra province (57.6 per 1000).<sup>24</sup></p> |   |
| 14 July 2011  | <p>FAO published the occurrence of 6 outbreaks of H5N1 in poultry in Fayoum, Giza, Menia, and Sharkia governorates of <b>Egypt</b> between 3 and 6 July 2011.<sup>24</sup></p>   |   |
| 18 July 2011  | <p><b>Viet Nam</b> reports 2 outbreaks of H5N1 in village poultry in Phu Tho and Quang Tri provinces.</p>  |   |
| 21 July 2011  | <p>FAO published the occurrence of 5 outbreaks of H5N1 in poultry in Beheira, Fayoum, Gharbia, Giza, and Sharkia governorates of <b>Egypt</b> between 12 and 17 July 2011.<sup>24</sup></p> <p>FAO published information indicating that the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 2.2 per 1000 villages under surveillance during May 2011.<sup>24</sup></p>  |   |
| 26 July 2011  | <p><b>Cambodia</b> reports an outbreak of H5N1 in wild birds in a zoo in Takeo province.</p>   |   |
| 28 July 2011  | <p>FAO published the occurrence of 6 outbreaks of H5N1 in poultry in Fayoum, Qaliyoubia, Qena, and Sharkia governorates of <b>Egypt</b> between 4 and 21 July 2011.<sup>24</sup></p>   |   |
| 29 July 2011  | <p><b>Cambodia</b> reports an outbreak of H5N1 in backyard poultry in Banteay Meanchey province.</p>   |   |
| 2 August 2011 |  | <p><b>Cambodia</b> confirms its 17<sup>th</sup> human case, in a 4-year-old girl from Banteay Meanchey province (onset date 11 July).</p> |

|                  |   |  |
|------------------|---|--|
| 4 August 2011    | <p><b>Viet Nam</b> reports 5 outbreaks of H5N1 in village poultry in Nghe An province.</p> <p>FAO published the occurrence of 10 outbreaks of H5N1 in poultry in Fayoum, Menoufiya, Qaliyoubia, Giza, and Sharkia governorates of <b>Egypt</b>, between 25 and 30 July 2011.<sup>24</sup></p>   |  |
| 9 August 2011    |   | <b>Egypt</b> confirms its 151 <sup>st</sup> human case, in a 6-year-old girl from Beheira governorate (onset date 12 July).      |
| 11 August 2011   | FAO published the occurrence of 4 outbreaks of H5N1 in poultry in Fayoum, Gharbia, Qaliyoubia, and Sharkia governorates of <b>Egypt</b> , between 1 and 6 August 2011. <sup>24</sup>  |  |
| 18 August 2011   | FAO published the occurrence of 2 outbreaks of H5N1 in poultry in Beni Suef and Qaliyoubia governorates of <b>Egypt</b> , between 7 and 13 August 2011. <sup>24</sup>   |  |
| 19 August 2011   |   | <b>Cambodia</b> confirms its 18 <sup>th</sup> human case, in a 6-year-old girl from Kampong Cham province (onset date 7 August). |
| 25 August 2011   | <p>FAO published the occurrence of 1 outbreak of H5N1 in poultry in Giza governorate of <b>Egypt</b> on the 15 August 2011.<sup>24</sup></p> <p>FAO published information indicating that the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 1.0 per 1000 villages under surveillance during June 2011. Over the past 12 months (from June), the overall HPAI incidence was 20.9 per 1000 villages, with the highest incidence in Yogyakarta (210.9 per 1 000), followed by Bengkulu province (72.9 per 1000), and West Sumatra province (69.6 per 1000).<sup>24</sup></p> |  |
| 5 September 2011 | <b>Viet Nam</b> reports 3 outbreaks of H5N1 in village poultry in Quang Ngai, Quang Tri, and Thai Binh provinces.   |  |
| 8 September 2011 | <b>Bangladesh</b> reports 4 outbreaks of H5N1 in commercial poultry in Dhaka, Khulna, and Rajshahi divisions.   |  |

|                   |  |   |
|-------------------|--|---|
|                   | <p><b>India</b> reports an outbreak of H5N1 in backyard poultry in Assam state. (This is the first report of H5N1 in India since March 2011.)</p> <p>FAO published the occurrence of 1 outbreak of H5N1 in poultry in a live bird market in Qaliyoubia governorate of <b>Egypt</b> on the 20 August 2011.<sup>24</sup></p>   |   |
| 12 September 2011 | <b>Cambodia</b> reports an additional outbreak of H5N1 in backyard poultry in Banteay Meanchey province.   |   |
| 15 September 2011 | FAO published the occurrence of 2 outbreaks of H5N1 in poultry in small holder farms in Dakahlia and Giza governorates of <b>Egypt</b> , between 5 and 7 September 2011. <sup>24</sup>   |   |
| 19 September 2011 | <b>India</b> reports an outbreak of H5N1 in backyard poultry in West Bengal state.   |   |
| 22 September 2011 | FAO published the occurrence of an outbreak of H5N1 HPAI in poultry in a small holder farm in Menoufiya governorate of <b>Egypt</b> on 17 September 2011. <sup>24</sup>  |   |
| 29 September 2011 | FAO published information indicating that the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 1.6 per 1000 villages under surveillance during July 2011. Over the past 12 months (from July), the overall HPAI incidence was 21.7 per 1000 villages, with the highest incidence in Yogyakarta (207.8 per 1000), followed by West Sumatra province (70.4 per 1000), and Bengkulu province (68.9 per 1000). In August 2011, the overall number of H5N1 HPAI outbreaks reported in villages under PDSR surveillance was 54. <sup>24</sup> |   |
| 10 October 2011   |  | <b>Indonesia</b> confirms its 179 <sup>th</sup> human case, in a 1-year-old girl from West Jakarta district, Jakarta (onset date 8 August). |
| 13 October 2011   | <b>Iran</b> reports 2 outbreaks of H5N1 in backyard poultry in Mazandaran. (This is the first report of H5N1 in Iran since   |   |

|                  |  |   |
|------------------|--|---|
|                  | December 2007.)<br><br>FAO published information indicating that the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 0.9 per 1000 villages under surveillance during August 2011. The highest HPAI incidence occurred in West Sulawesi province (21.7 per 1000) followed by South Sulawesi province (5.3 per 1000), and Bangka Belitung province (2.6 per 1000). <sup>24</sup> |   |
| 24 October 2011  | <b>Iran</b> reports an additional outbreak of H5N1 in backyard poultry in Mazandaran.  |   |
| 26 October 2011  |  | <b>Indonesia</b> confirms its 180 <sup>th</sup> human case, in a 5-year-old girl from Bangli district, Bali province (onset date 27 September), and its 181 <sup>st</sup> human case, in her 10-year-old brother (onset date 30 September). |
| 27 October 2011  | FAO published the occurrence of 4 outbreaks of H5N1 in poultry in a commercial farm in Beheira, and in backyard poultry in Fayoum, Gharbia and Giza governorates of <b>Egypt</b> , between 18 and 24 October 2011. <sup>24</sup>   |   |
| 2 November 2011  |  | <b>Egypt</b> confirms its 152 <sup>nd</sup> human case, in a 1-year-old boy from Gharbia governorate (onset date 17 September).   |
| 7 November 2011  | <b>Cambodia</b> reports an outbreak of H5N1 in commercial poultry in Battambang province.  |   |
| 10 November 2011 | <b>Viet Nam</b> reports an outbreak of H5N1 in village birds in Nghe An province.  |   |
| 15 November 2011 |  | <b>Indonesia</b> confirms its 182 <sup>nd</sup> case, in a 29-year-old female from Bangli district, Bali province (onset date 10 October, mother of the 2 cases earlier reported).  |
| 17 November 2011 | FAO published information indicating that the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 0.8 per 1000 villages under surveillance during September 2011. The highest HPAI incidence occurred in Bali (5.6 per 1000) followed by Central Sulawesi province (4.3 per 1000), and West Kalimantan province (3.1 per 1000). 2  |   |

|                  |  |   |
|------------------|--|---|
|                  | outbreaks were reported in 2 villages in Flores Timur District, East Nusa Tenggara province by the Disease Investigation Centre Denpasar in September 2011. <sup>24</sup>  |   |
| 24 November 2011 | FAO published the occurrence of an outbreak of H5N1 in backyard poultry in Menia governorate of <b>Egypt</b> on 16 November. <sup>24</sup>   |   |
| 29 November 2011 |  | <b>Egypt</b> confirms its 153 <sup>rd</sup> human case, in a 31-year-old female from Dakahlia governorate (onset date 10 November).                                     |
| 2 December 2011  | <b>Nepal</b> reports an outbreak of H5N1 in backyard poultry in Bagmati zone. (This is the first report of H5N1 in Nepal since October 2010.)  |   |
| 8 December 2011  | FAO published the occurrence of an outbreak of H5N1 in backyard poultry in Menia governorate of <b>Egypt</b> on 1 December. <sup>24</sup><br><br>FAO published information indicating that the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 1.2 per 1000 villages under surveillance during October 2011. The highest HPAI incidence occurred in Bali province (25.1 per 1000) followed by West Nusa Tenggara province (20.6 per 1000), and Gorontalo province (4.5 per 1000). 19 outbreaks were reported in 19 villages in Lombok Island, West Nusa Tenggara province by Local Disease Control Centres (LDCC) in October 2011. <sup>24</sup> |   |
| 12 December 2011 | <b>China</b> reports an outbreak of H5N1 in village birds in Tibet Autonomous Region. (This is the first report of H5N1 in China since May 2010.)  |   |
| 15 December 2011 | FAO published the occurrence of an outbreak of H5 in backyard poultry in Giza governorate of <b>Egypt</b> , on 4 December. <sup>24</sup>   | <b>Egypt</b> confirms its 154 <sup>th</sup> and its 155 <sup>th</sup> human cases, in a mother and her young child from Dakahlia governorate (onset dates 26 November). |
| 19 December 2011 | <b>China Hong Kong SAR</b> reports H5N1 in a wild bird on Yuen Long.   |   |
| 21               |  | <b>Egypt</b> confirms its 156 <sup>th</sup> human case, in a 29-year-old  |

|                  |  |  |
|------------------|--|--|
| December 2011    | <b>Bangladesh</b> reports 4 outbreaks of H5N1 in commercial poultry in Dhaka and Khulna divisions.   | man from Dakahlia governorate (onset date 8 December).   |
| 22 December 2011 | FAO published the occurrence of 3 outbreaks of H5 in backyard poultry in Dakahlia, Gharbia and Menoufiya governorates of <b>Egypt</b> , between 1 and 13 December. <sup>24</sup>   |  |
| 23 December 2011 | <b>China Hong Kong SAR</b> reports H5N1 from a chicken carcass in Cheung Sha Wan and in a wild bird in Tin Shui Wai.   |  |
| 29 December 2011 | FAO published the occurrence of 2 outbreaks of H5 in backyard poultry in Dakahlia governorate of <b>Egypt</b> , between 21 and 25 December. <sup>24</sup>  |  |
| 5 January 2012   | FAO published the occurrence of 4 outbreaks of H5 in backyard poultry in Damietta, Gharbia, Kafr el Sheikh, Menoufiya, and Qaliyoubia governorates of <b>Egypt</b> , between 25 December 2011 and 2 January 2012. <sup>24</sup>  | <b>China</b> confirms its 41 <sup>st</sup> human case, in a 39-year-old man from Guangdong Province (onset date 21 December 2011). The last case confirmed by China had an onset of November 2010.<br><br><b>Egypt</b> confirms its 157 <sup>th</sup> human case, in a 42-year-old man from Menoufiya governorate (onset date 16 December 2011). |
| 06 January 2012  | <b>China Hong Kong SAR</b> reports H5N1 in wild birds in Tuen Mun and Lantau.  |  |
| 09 January 2012  | <b>Bhutan</b> reports an outbreak of H5N1 in backyard poultry in Chhukha district. (This is the first report of H5N1 in Bhutan since March 2010.)  |  |
| 11 January 2012  | <b>India</b> reports an outbreak of H5N1 in backyard poultry in Orissa state.  | <b>Indonesia</b> confirms its 183 <sup>rd</sup> human case, in a 23-year-old man from Jakarta (onset date 31 December 2011).   |
| 12 January 2012  | FAO published the occurrence of 4 outbreaks of H5 in backyard poultry in Gharbia and Menoufiya governorates of <b>Egypt</b> between 3 and 9 January. <sup>24</sup><br><br>FAO published information indicating that the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 0.6 per 1000 villages under surveillance during November 2011. The highest HPAI incidence occurred in West Sulawesi province (7.8 per 1000) followed by Yogyakarta (4.6 per 1000), and South |  |

|                  |   |  |
|------------------|---|--|
|                  | Sulawesi province (3.4 per 1000). <sup>24</sup>   |  |
| 13 January 2012  | <b>India</b> reports an additional outbreak of H5N1 in a poultry farm in Meghalaya state.   |  |
| 15 January 2012  | <b>Bangladesh</b> reports 3 outbreaks of H5N1 in commercial poultry in Dhaka and Khulna divisions.  |  |
| 16 January 2012  |   | <b>Cambodia</b> confirms its 19 <sup>th</sup> human case, in a 2-year-old boy from Banteay Meanchey province (onset date 3 January).   |
| 17 January 2012  | <b>Bhutan</b> reports an additional outbreak of H5N1 in backyard poultry in Thimphu district.   |  |
| 18 January 2012  | <b>Bhutan</b> reports an additional outbreak of H5N1 in backyard poultry in Chhukha district.<br><br><b>India</b> reports an additional outbreak of H5N1 in backyard poultry in Orissa state. |  |
| 19 January 2012  | FAO published the occurrence of an outbreak of H5 in backyard poultry in Menia governorate of <b>Egypt</b> on 6 January. <sup>24</sup>  | <b>Egypt</b> confirms its 158 <sup>th</sup> human case, in a 2-year-old girl from Cairo governorate (onset date 30 October 2011), and its 159 <sup>th</sup> human case in a 31-year-old man from Fayoum governorate (onset date 1 January).<br><br><b>Indonesia</b> confirms its 184 <sup>th</sup> human case, in a 5-year-old girl from Jakarta (identified by a surveillance team on 7 January, she was a family contact of the case previously reported, with onset date 31 December 2011). |
| 20 January 2012  | <b>China Hong Kong SAR</b> reports additional H5N1 in a wild bird in Yuen Long.   | <b>Viet Nam</b> confirms its 120 <sup>th</sup> human case, in an 18-year-old man from Kien Giang province (onset date 10 January). The last case confirmed by Viet Nam had an onset of April 2010.   |
| 24 January 2012  |   | <b>China</b> confirms its 42 <sup>nd</sup> human case, in a 39-year-old man from Guizhou Province (onset date 6 January).  |
| 26 January 2012  | FAO published the occurrence of 3 outbreaks of HPAI in backyard poultry in Damietta, Giza, and Kafr el Sheikh governorates of <b>Egypt</b> , between 11 and 18 January. <sup>24</sup>         |  |
| 27 January 2012  | <b>China Hong Kong SAR</b> reports H5N1 in a goose carcass in Sham Tsengon.   |  |
| 28 January 2012  | <b>India</b> reports an outbreak of H5N1 in a poultry farm in Tripura state.  |  |
| 02 February 2012 | FAO published the occurrence of 3 outbreaks of H5 in backyard poultry in Gharbia and Menoufiya governorates of <b>Egypt</b> , between 24 and 28 January. <sup>24</sup>                        |  |

|                  |  |   |
|------------------|--|---|
| 3 February 2012  | <p><b>China Hong Kong SAR</b> reports H5N1 in wild birds in Yuen Long and Tung Chung.</p> <p><b>Viet Nam</b> reports 3 outbreaks of H5N1 in village poultry in Quang Tri and Thanh Hoa provinces.</p>  |   |
| 4 February 2012  | <b>India</b> reports an outbreak of H5N1 in a poultry farm in Orissa state.  |   |
| 6 February 2012  | <p><b>India</b> reports H5N1 in wild birds in Bihar, Jharkhand, Maharashtra, and Orissa and states.</p> <p><b>Viet Nam</b> reports an additional outbreak of H5N1 in village poultry in Soc Trang province.</p>  |   |
| 8 February 2012  | <b>Viet Nam</b> reports 3 outbreaks of H5N1 in village poultry in Quang Tri and Thanh Hoa provinces.   | <b>Viet Nam</b> confirms its 121 <sup>st</sup> human case, in a 26-year-old pregnant woman from Soc Trang province (onset date 23 January). |
| 9 February 2012  | <p><b>China Hong Kong SAR</b> reports H5N1 in wild birds in Tuen Mun and Yuen Long.</p> <p>FAO published the occurrence of 4 outbreaks of H5 in backyard poultry in Gharbia and Menoufiya governorates of <b>Egypt</b>, between 20 January and 2 February.<sup>24</sup></p> <p>FAO published information indicating that the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 0.5 per 1000 villages under surveillance during December 2011. The highest HPAI incidence occurred in West Sulawesi province (6.2 per 1000) followed by Jambi province (3.8 per 1000) and Bangka Belitung province (2.6 per 1000).<sup>24</sup></p> |   |
| 10 February 2012 | <b>Viet Nam</b> reports 2 outbreaks of H5N1 in village poultry in Hai Duong and Ha Nam provinces.  |   |
| 12 February 2012 | <b>Nepal</b> reports 2 outbreaks of H5N1 in commercial poultry and in backyard poultry in Koshi and Mechi zones, and reports H5N1 in wild birds in Bagmati zone.   |   |
| 13               | <b>Viet Nam</b> reports 4 outbreaks  |   |



|                  |   |   |
|------------------|---|---|
| February 2012    | of H5N1 in village poultry in Thai Nguyen, Kien Giang, Bac Giang and Hai Phong provinces.   |   |
| 14 February 2012 | <b>Viet Nam</b> reports 2 additional outbreaks of H5N1 in village poultry in Hai Phong province.  |   |
| 15 February 2012 | <b>Nepal</b> reports 2 additional outbreaks of H5N1 in commercial poultry in Koshi and Mechi zones and 2 outbreaks of H5N1 in backyard birds in Mechi zone.<br><br><b>Viet Nam</b> reports 2 outbreaks of H5N1 in village poultry in Ha Tinh province.                    |   |
| 16 February 2012 | FAO published the occurrence of 2 outbreaks of H5 in household poultry in Damietta and Giza governorates of <b>Egypt</b> , and an outbreak in commercial poultry in Menoufiya governorate of <b>Egypt</b> , between 3 and 8 February. <sup>24</sup>                       |   |
| 17 February 2012 | <b>China Hong Kong SAR</b> reports H5N1 in wild birds in Yuen Long.   |   |
| 18 February 2012 | <b>Viet Nam</b> reports an outbreak of H5N1 in village poultry in Quang Nam province.   |   |
| 21 February 2012 | <b>Viet Nam</b> reports 2 outbreaks of H5N1 in village poultry in Bac Ninh province.  | <b>Indonesia</b> confirms its 185 <sup>th</sup> human case, in a 19-year-old woman from Banten province (onset date 8 February).  |
| 22 February 2012 |   | <b>Egypt</b> confirms its 160 <sup>th</sup> human case, in a 45-year-old woman from Menoufiya governorate (onset date 10 February).   |
| 23 February 2012 | FAO published the occurrence of 4 outbreaks of H5 in commercial poultry in Beni Suef, Dakahlia, Fayoum, and Menoufiya governorates of <b>Egypt</b> and an outbreak in household poultry in Gharbia governorate of <b>Egypt</b> , between 8 and 12 February. <sup>24</sup> |   |
| 24 February 2012 | <b>Viet Nam</b> reports an outbreak of H5N1 in village poultry in Nam Dinh province.  | <b>Egypt</b> confirms its 161 <sup>st</sup> human case, in a 1-year-old girl from Gharbia governorate (onset date 14 February).   |
| 28 February 2012 | <b>Myanmar</b> reports an outbreak of H5N1 in farmed poultry in Sagaing region. (This is the first report of H5N1 in Myanmar since  | <b>Egypt</b> confirms its 162 <sup>nd</sup> human case, in a 32-year-old man from Beheira governorate (onset date 16 February 2012), and its 163 <sup>rd</sup> human case, in a 37-year-old woman from Kafr el Sheikh governorate (onset date 18 February). |

|               |  |  |
|---------------|--|--|
|               | March 2011.)   |  |
| 1 March 2012  | <p><b>Bhutan</b> reports an outbreak of H5N1 in a backyard poultry farm in Chhukha district.</p> <p><b>China Hong Kong SAR</b> reports H5N1 in wild birds in Mongkok and Cheung Chau.</p> <p>FAO published the occurrence of 2 outbreaks of H5 in backyard poultry in Damietta and Fayoum governorates of <b>Egypt</b>, between 13 and 18 February.<sup>24</sup></p> | <b>Indonesia</b> confirms its 186 <sup>th</sup> human case, in a 12-year-old boy from Bali province (onset date 11 February).  |
| 2 March 2012  | <p><b>Bhutan</b> reports 5 outbreaks of H5N1 in backyard poultry farms in Chhukha district.</p> <p><b>Viet Nam</b> reports an outbreak of H5N1 in village poultry in Quang Ninh province.</p>  | <b>Bangladesh</b> confirms its 4 <sup>th</sup> human case, in a 40-year-old man from Dhaka City, Dhaka division (identified 26 February 2012). The last case confirmed by Bangladesh had an onset of March 2011.   |
| 5 March 2012  |  | <b>Viet Nam</b> confirms its 122 <sup>nd</sup> human case, in a 22-year-old man from Thanh Hoa province who lived and worked in Binh Duong province (onset date 17 February).  |
| 7 March 2012  |  | <b>Bangladesh</b> confirms its 5 <sup>th</sup> human case, in a 26-year-old man from Dhaka City, and its 6 <sup>th</sup> human case, in an 18-year-old man also from Dhaka City, Dhaka division.   |
| 8 March 2012  | FAO published the occurrence of an outbreak of H5 in commercial poultry in Beni Suef governorate of <b>Egypt</b> , on 2 March. <sup>24</sup>   |  |
| 9 March 2012  | <p><b>Bhutan</b> reports an outbreak of H5N1 in backyard poultry in Chhukha district.</p> <p><b>China Hong Kong SAR</b> reports H5N1 in wild birds in Ma On Shan and Tuen Mun.</p> <p><b>Israel</b> reports 2 outbreaks of H5N1 in turkeys in Hadarom. (This is the first report of H5N1 in Israel since April 2011.)</p>  |  |
| 11 March 2012 | <b>Nepal</b> reports 3 outbreaks of H5N1 in backyard poultry in Mechi and Koshi zones.   |  |
| 12 March 2012 | <b>Myanmar</b> reports an outbreak of H5N1 in farmed poultry in Bago region.   | <p><b>Indonesia</b> confirms its 187<sup>th</sup> human case, in a 24-year-old woman from Bengkulu province (onset date 23 February)</p> <p><b>Viet Nam</b> confirms its 123<sup>rd</sup> human case, in a 31-year-old man from Dak Lak province (onset date 29 February).</p> |
| 15 March      | <b>Israel</b> reports H5N1 in cats in Hadarom.   |  |

|               |   |  |
|---------------|---|--|
| 2012          | FAO published the occurrence of an outbreak of H5 in backyard poultry in Damietta governorate of <b>Egypt</b> , on 4 March. <sup>24</sup>   |  |
| 16 March 2012 | <b>India</b> reports an outbreak of H5N1 in a poultry farm in Tripura state.  |  |
| 19 March 2012 | <b>Bangladesh</b> reports 10 outbreaks of H5N1 in commercial poultry farms in Chittagong, Dhaka, Khulna, and Rajshahi divisions.  | <b>Egypt</b> confirms its 164 <sup>th</sup> human case, in a 40-year-old woman from Dakahlia governorate (onset date 6 March).   |
| 22 March 2012 | FAO published the occurrence of an outbreak of H5 in backyard poultry in Fayoum governorate of <b>Egypt</b> , on 11 March. <sup>24</sup>  |  |
| 23 March 2012 | <b>China Hong Kong SAR</b> reports H5N1 in wild birds in Lantau and Shek Kip Mei.   |  |
| 26 March 2012 | <b>Nepal</b> reports 2 outbreaks of H5N1 in commercial poultry farms in Bagmati zone.   | <b>Indonesia</b> confirms its 188 <sup>th</sup> human case, in a 17-year-old boy from West Nusa Tenggara province (onset date 28 February).  |
| 29 March 2012 | FAO published the occurrence of 2 outbreaks of H5 in a commercial poultry farm in Beni Suef governorate and in backyard poultry in Qena governorate of <b>Egypt</b> , between 4 and 15 March. <sup>24</sup> |  |
| 31 March 2012 | <b>China</b> reports an outbreak of H5N1 in poultry in Yunnan province. (This is the first report of H5N1 from mainland China since Dec 2011.)  |  |
| 2 April 2012  |   | <b>Egypt</b> confirms its 165 <sup>th</sup> human case, in a 2-year-old girl from Damietta governorate (onset date 19 March), and its 166 <sup>th</sup> human case, in a 15-year-old girl from Giza governorate (onset date 25 March). |
| 5 April 2012  | FAO published the occurrence of 5 outbreaks of H5 in backyard poultry in Beheira, Damietta, and Sharkia governorates of <b>Egypt</b> , between 26 and 27 March. <sup>24</sup>                               | <b>Cambodia</b> confirms its 20 <sup>th</sup> human case, in a 6-year-old girl from Kampong Cham province (onset date 22 March).   |
| 12 April 2012 | FAO published the occurrence of 10 outbreaks of H5 in backyard poultry in Assiut, Dakahlia, Gharbia, Kafr el Sheikh and Sharkia governorates of <b>Egypt</b> , on 3 and 4 April. <sup>24</sup>              | <b>Egypt</b> confirms its 167 <sup>th</sup> human case, in a 36-year-old woman from Giza governorate (onset date 1 April 2012).  |
| 13 April 2012 | <b>China Hong Kong SAR</b> reports H5N1 in a wild bird in Hung Hom.   |  |

|               |   |   |
|---------------|---|---|
| 18 April 2012 | <b>China</b> reports an outbreak of H5N1 in poultry in Ningxia province.  |   |
| 19 April 2012 | FAO published the occurrence of an outbreak of H5 in backyard poultry in Sohag governorate of <b>Egypt</b> , on 4 April. <sup>24</sup>  |   |
| 20 April 2012 | <b>Bhutan</b> reports an outbreak of H5N1 in backyard poultry in Mongar district.   |   |
| 22 April 2012 | <b>Bangladesh</b> reports 9 outbreaks of H5N1 in commercial poultry farms in Dhaka, Khulna and Rajshani divisions.  |   |
| 24 April 2012 | <b>China</b> reports an outbreak of H5N1 in poultry in Liaoning province.   |   |
| 26 April 2012 | FAO published the occurrence of an outbreak of H5 in backyard poultry in Kafr el Sheikh governorate of <b>Egypt</b> , on 10 April. <sup>24</sup>                                |   |
| 2 May 2012    |   | <b>Indonesia</b> confirms its 189 <sup>th</sup> human case, in a 2-year-old boy from Riau province (onset date 17 April).           |
| 3 May 2012    | FAO published the occurrence of 2 outbreaks of H5 in backyard and commercial poultry in Sharkia and Sohag governorates of <b>Egypt</b> , between 24 and 27 April. <sup>24</sup> |   |
| 4 May 2012    | <b>China Hong Kong SAR</b> reports H5N1 in a wild bird in Yuen Long.  |   |
| 7 May 2012    | <b>India</b> reports an outbreak of H5N1 in a poultry farm in Tripura state.  |   |
| 24 May 2012   | FAO published the occurrence of an outbreak of H5 in commercial poultry in Fayoum governorate of <b>Egypt</b> , on 10 May. <sup>24</sup>  |   |
| 29 May 2012   |   | <b>Cambodia</b> confirms its 21 <sup>st</sup> human case, in a 10-year-old girl from Kampong Speu province (onset date 20 May).     |
| 1 June 2012   | <b>Cambodia</b> reports an outbreak of H5N1 in poultry in Kampong Speu province. (This is the first report of H5N1 in Cambodia since November 2011.)                            |   |
| 5 June 2012   |   | <b>China</b> confirms its 43 <sup>rd</sup> human case, in a 2-year-old boy from Guangdong province (onset date 23 May).             |
| 6 June 2012   | <b>China</b> reports an outbreak of H5N1 in poultry in Gansu province.  |   |
| 7 June        |   | <b>Egypt</b> confirms its 168 <sup>th</sup> human case, in a 4-year-old girl from Kafr el Sheikh governorate (onset date 25 April). |

|               |  |   |
|---------------|--|---|
| 2012          |  |   |
| 14 June 2012  | FAO published the occurrence of an outbreak of H5 in commercial poultry in Qaliyoubia governorate of <b>Egypt</b> , on 30 May. <sup>24</sup>   |   |
| 21 June 2012  | <b>China Hong Kong SAR</b> reports H5N1 in a wild bird in Yuen Long.<br><br>FAO published information indicating that the overall HPAI incidence in <b>Indonesia</b> based on PDSR village-level surveillance was 0.5, 0.7, 0.7 and 0.9 per 1000 villages under surveillance during January, February, March and April 2012, respectively. The highest HPAI incidences occurred in Central Kalimantan province in January, West Sulawesi province in February, Yogyakarta in March and Bali province in April. <sup>24</sup> |   |
| 2 June 2012   | FAO published the occurrence of 3 outbreaks of H5 in commercial poultry in Sharkia and Giza governorates of <b>Egypt</b> , between 13 and 18 June 2012. <sup>24</sup>  |   |
| 2 July 2012   | <b>China</b> reports an outbreak of H5N1 in poultry in Xinjiang province.  |   |
| 5 July 2012   | FAO published the occurrence of an outbreak of H5 in commercial poultry in Qaliyoubia governorate of <b>Egypt</b> , on 20 June. <sup>24</sup>  |   |
| 6 July 2012   | <b>China Hong Kong SAR</b> reports H5N1 in a wild bird in Kowloon Tong and in a sample collected from a bird cage holding Oriental magpie robin in Mong Kok.   | <b>Indonesia</b> confirms its 190 <sup>th</sup> human case, in an 8-year-old girl from West Java province (onset date 18 June). |
| 17 July 2012  | <b>Taiwan, Province of China</b> , reports an outbreak of H5N1 in pet birds illegally transported.   |   |
| 23 July 2012  | <b>Viet Nam</b> reports 4 outbreaks of H5N1 in village poultry in Quang Binh and Hai Duong provinces.  |   |
| 2 August 2012 | FAO published the occurrence of an outbreak of H5 in commercial poultry in Fayoum governorate of <b>Egypt</b> , on 22 July. <sup>24</sup>  |   |

|                   |  |  |
|-------------------|--|--|
| 7 August 2012     | <b>Viet Nam</b> reports 6 outbreaks of H5N1 in village poultry in Ha Tinh and Hai Phong provinces.   |  |
| 8 August 2012     | <b>Viet Nam</b> reports 2 outbreaks of H5N1 in village poultry in Ninh Binh province.  |  |
| 10 August 2012    |  | <b>Indonesia</b> confirms its 191 <sup>st</sup> human case, in a 37-year-old man from Yogyakarta (onset date 24 July). |
| 15 August 2012    | <b>Viet Nam</b> reports 6 outbreaks of H5N1 in village poultry in Nam Dinh province.   |  |
| 23 August 2012    | <b>Viet Nam</b> reports 3 outbreaks of H5N1 in village poultry in Bac Kan province.  |  |
| 6 September 2012  | <b>Viet Nam</b> reports 3 outbreaks of H5N1 in village poultry in Thanh Hoa and Quang Ngai provinces.  |  |
| 17 September 2012 | <b>Viet Nam</b> reports an outbreak of H5N1 in village poultry in Hoa Binh province.   |  |
| 18 September 2012 | <b>China</b> reports an outbreak of H5N1 in poultry in Guangdong province.   |  |
| 27 September 2012 | FAO published the occurrence of 2 outbreaks of H5 in household poultry and in poultry in a live bird market in the Beheira and Giza governorates of <b>Egypt</b> , on 19 September. <sup>24</sup>                            |  |
| 11 October 2012   | FAO published the occurrence of 3 outbreaks of H5 in household poultry and in poultry in a live bird market in the Beheira, Fayoum and Giza governorates of <b>Egypt</b> , between 25 September and 2 October. <sup>24</sup> |  |
| 14 October 2012   | <b>Nepal</b> reports an outbreak of H5N1 in commercial poultry in Bagmati zone.  |  |
| 18 October 2012   | FAO published the occurrence of 2 outbreaks of H5 in poultry in live bird markets in the Giza and Menoufiya governorates of <b>Egypt</b> , between 4 and 9 October. <sup>24</sup>  |  |
| 25 October 2012   | <b>Bhutan</b> reports an outbreak of H5N1 in village poultry in Chhukha district.<br><br>FAO published the occurrence of 2 outbreaks of H5 in poultry in a live bird market and in household                                 |  |

|                  |  |  |
|------------------|--|--|
|                  | poultry in the Giza and Menoufiya governorates of <b>Egypt</b> , between 10 and 17 October. <sup>24</sup>  |  |
| 26 October 2012  | <b>India</b> reports an outbreak of H5N1 in poultry in Karnataka state.  |  |
| 2 November 2012  | <b>Nepal</b> reports an outbreak of H5N1 in commercial poultry in Bagmati zone.  |  |
| 8 November 2012  | FAO published the occurrence of 8 outbreaks of H5 in poultry in live bird markets and in household poultry in the Giza and Menoufiya governorates of <b>Egypt</b> , between 17 October and 4 November. <sup>24</sup> |  |
| 15 November 2012 | FAO published the occurrence of an outbreak of H5 in household poultry in the Menoufiya governorate of <b>Egypt</b> , between 7 and 13 November. <sup>24</sup>   |  |
| 19 November 2012 | <b>Bangladesh</b> reports an outbreak of H5N1 in commercial poultry in Dhaka division.   |  |
| 29 November 2012 | FAO published the occurrence of 3 outbreaks of H5 in poultry in live bird markets in the Giza and Menoufiya governorates of <b>Egypt</b> , between 8 and 27 November. <sup>24</sup>                                  |  |
| 6 December 2012  | FAO published the occurrence of 4 outbreaks of H5 in poultry in live bird markets and household poultry in the Giza and Menoufiya governorates of <b>Egypt</b> , between 22 November and 5 December. <sup>24</sup>   |  |
| 13 December 2012 | FAO published the occurrence of an outbreak of H5 in household poultry in the Menoufiya governorate of <b>Egypt</b> , between 5 and 12 December. <sup>24</sup>   |  |
| 17 December 2012 |  | <b>Egypt</b> confirms its 169 <sup>th</sup> human case, in a 2-year-old girl from Damietta governorate (onset date 3 December).<br><br><b>Indonesia</b> confirms its 192 <sup>nd</sup> human case, in a 4-year-old boy from West Java province (onset date 30 November). |
| 20 December 2012 | FAO published the occurrence of 3 outbreaks of H5 in live bird markets and household poultry in the Giza and Menoufiya governorates  |  |

|                 |  |  |
|-----------------|--|--|
|                 | of <b>Egypt</b> , between 12 and 18 December 2012. <sup>24</sup>   |  |
| 3 January 2013  | FAO published the occurrence of 7 outbreaks of H5 in live bird markets, household poultry, and a commercial farm in the Beheira (2), Gharbia (2), Giza (1), Luxor (1) and Menoufiya (1) governorates of <b>Egypt</b> , between 19 December 2012 and 2 January 2013 <sup>24</sup> . |  |
| 6 January 2013  | <b>Nepal</b> reports to the OIE 4 outbreaks of H5N1 in Bagmati zone: 2 in layer farms, 1 in backyard poultry and 1 in a broiler parent farm.   |  |
| 10 January 2013 | FAO published the occurrence of 2 H5 outbreaks in live bird markets in the Menoufiya governorate of <b>Egypt</b> , between 2 and 9 January 2013. <sup>24</sup>   |  |
| 11 January 2013 | <b>Bhutan</b> reports to the OIE an outbreak of H5N1 in Dagana district in backyard poultry.   |  |
| 17 January 2013 | FAO published the occurrence of 3 H5 outbreaks in household poultry in the Beheira (1) and Gharbia (2) governorates of <b>Egypt</b> , between 26 December 2012 and 7 January 2013. <sup>24</sup>   |  |
| 18 January 2013 | <b>Nepal</b> reports to the OIE an outbreak of H5N1 in Bagmati zone in backyard poultry.   |  |
| 21 January 2013 | <b>Nepal</b> reports to the OIE 4 outbreaks of H5N1 in Gandaki zone in broiler farms.  |  |
| 24 January 2013 | FAO published the occurrence of an H5 outbreak in a chicken broiler farm in the Luxor governorate of <b>Egypt</b> , between 8 December 2012 and 15 January 2013. <sup>24</sup>   |  |
| 27 January 2013 | <b>Cambodia</b> reports to the OIE an outbreak of H5N1 in Takeo province in backyard poultry.  |  |
| 29 January 2013 | <b>China Hong Kong SAR</b> reports to the OIE H5N1 in a wild bird, a black-headed gull ( <i>Larus ridibundus</i> ).  |  |
| 30 January 2013 | <b>Cambodia</b> reports to the OIE an outbreak of H5N1 in Kampong Speu province in backyard poultry.   |  |
| 31 January 2013 | FAO published the occurrence of 4 H5 outbreaks in live bird markets and  |  |



|                  |   |   |
|------------------|---|---|
|                  | household poultry in the Beheira (1), Dakahlia (2) and Menoufiya (1) governorates of <b>Egypt</b> , between 23 and 30 January 2013. <sup>24</sup>   |   |
| 5 February 2013  | <b>Bangladesh</b> reports to the OIE an outbreak of H5N1 in Dhaka division in a commercial poultry farm.  |   |
| 7 February 2013  | FAO published the occurrence of 4 H5 outbreaks in household poultry, a commercial farm and live bird markets in the Beheira (1), Giza (2) and Menoufiya (1) governorates of <b>Egypt</b> , between 22 and 29 January 2013. <sup>24</sup>  |   |
| 8 February 2013  | <b>Bhutan</b> reports to the OIE an outbreak of H5N1 in Sarpang district in backyard chicken.   |   |
| 14 February 2013 | FAO published the occurrence of 8 H5 outbreaks in household poultry, a commercial farm and live bird markets in the Beheira (1), Gharbia (3), Giza (1), Luxor (1), Menia (1) and Menoufiya (1) governorates of <b>Egypt</b> , between 28 January and 7 February 2013. <sup>24</sup> |   |
| 15 February 2013 | <b>Nepal</b> reports to the OIE 5 outbreaks of H5N1, 1 in Mechi zone in backyard poultry and 4 in Bagmati zone in broiler farms.  | <p><b>Cambodia</b> confirms its 22<sup>nd</sup> human case, in a 8-month-old boy from Phnom Penh (onset date 8 January), its 23<sup>rd</sup> human case, in a 15-year-old girl from Takeo province (onset date 11 January), its 24<sup>th</sup> human case, in a 35-year-old man from Kampong Speu province (onset date 13 January), its 25<sup>th</sup> human case, in a 18-month-old girl from Kampong Speu province (onset date 13 January), its 26<sup>th</sup> human case, in a 9-year-old girl from Kampot province (onset date 19 January), its 27<sup>th</sup> human case, in a 5-year-old girl from Takeo province (onset date 25 January), and its 28<sup>th</sup> human case, in a 3-year-old girl from Kampot province (onset date 3 February). The last case confirmed by Cambodia had an onset of May 2012.</p> <p><b>Egypt</b> confirms its 170<sup>th</sup> human case, in a 36-year-old woman from Beheira governorate (onset date 16 January).</p> <p><b>China</b> confirms its 44<sup>th</sup> human case, in a 21-year-old woman from Guizhou province (onset date 2 February) and its 45<sup>th</sup> human case, in a 31-year-old man from Guizhou province (onset date 3 February). The last case confirmed by China had an onset of May 2012.</p> |
| 21 February 2013 | FAO published the occurrence of 4 H5 outbreaks in household poultry in the Gharbia (2), Menoufiya (1) and Suez (1) governorates of <b>Egypt</b> , between 13 and 19   |   |

|                  |  |  |
|------------------|--|--|
|                  | February 2013. <sup>24</sup>   |  |
| 22 February 2013 | <b>Cambodia</b> reports to the OIE 3 outbreaks of H5N1 in backyard poultry, 2 in Kampong Cham province and 1 in Kampot province.   |  |
| 28 February 2013 | FAO published the occurrence of 10 H5 outbreaks in household poultry and a commercial farm, in the Beheira (1), Dakahlia (1), Gharbia (1), Giza (2), Luxor (1), Menoufiya (2), and Sharkia (1) governorates of <b>Egypt</b> , and El Kharga in New Valley governorate (1) between 17 and 21 February 2013. <sup>24</sup> |  |
| 7 March 2013     | FAO published the occurrence of 8 H5 outbreaks in household poultry and commercial farms, in the Cairo (1), Dakahlia (1), Damietta (1), Giza (2), Menoufiya (2) and New Valley (1) governorates of <b>Egypt</b> , between 22 February and 2 March 2013. <sup>24</sup>  |  |
| 7 March 2013     | FAO published the occurrence of an H5N1 outbreak in poultry, in Dien Bien, Khanh Hoa and Kien Giang Provinces of <b>Viet Nam</b> , from 19 to 28 February. <sup>24</sup>   |  |
| 9 March 2013     | <b>India</b> reports to the OIE an outbreak of H5N1 in a poultry farm in Bihar state.  |  |
| 12 March 2013    | <b>Cambodia</b> reports to the OIE an outbreak of H5N1 in poultry in Siem Reap province.   | <b>Cambodia</b> confirms its 29 <sup>th</sup> human case, in a 20-month-old boy from Kampot province (onset date 6 February) and its 30 <sup>th</sup> human case, in a 35-year-old man from Kampong Cham province (onset date 8 February). |
| 14 March 2013    | FAO published the occurrence of 2 H5 outbreaks in household poultry in the New Valley governorate of <b>Egypt</b> , between 6 and 12 March 2013. <sup>24</sup>   |  |
| 21 March 2013    | FAO published the occurrence of 5 H5 outbreaks in household poultry in the Beni Suef (1), Dakahlia (1), Gharbia (1), Kafr el Sheikh (1) and New Valley (Al Wadi/al Jadid) (1) governorates of <b>Egypt</b> , between 6 and 10 March 2013. <sup>24</sup>  |  |
| 28 March 2013    | FAO published the occurrence of 2 H5 outbreaks in household poultry in the   |  |

|               |  |  |
|---------------|--|--|
|               | Damietta and Kafr el Sheikh governorates of <b>Egypt</b> , between 13 and 21 March 2013. <sup>24</sup>   |  |
| 4 April 2013  | FAO published the occurrence of 2 H5 outbreaks in household poultry in the Giza (1) and Suez (1) governorates of <b>Egypt</b> , between 20 and 26 March 2013. <sup>24</sup>  |  |
| 11 April 2013 | <b>Nepal</b> reports to the OIE 9 outbreaks of H5N1, 1 in Lumbini zone, 1 in Narayani zone and 7 in Mechi zone, in backyard poultry and commercial broiler and layer farms.  |  |
| 18 April 2013 | FAO published the occurrence of H5N1 infection in captive wild birds in Ninh Thuan, <b>Viet Nam</b> , on 16 April 2013. <sup>24</sup>  |  |
| 25 April 2013 | FAO published the occurrence of 3 H5 outbreaks in household poultry and a commercial chicken farm in the Alexandria, Giza and Menoufiya governorates of <b>Egypt</b> , between 16 and 17 April 2013. <sup>24</sup> |  |
| 26 April 2013 |  | <p><b>Cambodia</b> confirms its 31<sup>st</sup> human case, in a 5-year-old boy from Kampot province (onset date 27 March).</p> <p><b>Egypt</b> confirms its 171<sup>st</sup> human case, in a 40-year-old woman from Menoufiya governorate (onset date 3 March) and its 172<sup>nd</sup> human case, in a 26-year-old man from Dakahlia governorate (onset date 30 March).</p> <p><b>Viet Nam</b> confirms its 124<sup>th</sup> human case, in a 4-year-old boy from Dong Thap province (onset date 23 March) and its 125<sup>th</sup> human case, in a 20-year-old woman from Long An province (onset date 11 April). The last case confirmed by Viet Nam had an onset of February 2012.</p> <p><b>Bangladesh</b> confirms its 7<sup>th</sup> human case, in a 2-year-old boy from Chittagong division (onset date 11 February). The last case confirmed by Bangladesh was detected in March 2012.</p> |
| 29 April 2013 | <b>Bangladesh</b> reports to the OIE 2 outbreaks of H5N1 in commercial poultry farms, 1 in Dhaka division and 1 in Rangpur division.   |  |
| 3 May 2013    | FAO published the occurrence of 2 H5 outbreaks in a commercial chicken farm and a live bird market in the Giza (1) and Ismailia (1) governorates of <b>Egypt</b> , between 18 and 23 April                         |  |

|              |  |   |
|--------------|--|---|
|              | 2013. <sup>24</sup>  |   |
| 9 May 2013   | FAO published the occurrence of 6 H5 outbreaks in household poultry in the Cairo (1), Gharbia (4) and Menoufiya (1) governorates of <b>Egypt</b> , between 24 and 30 April 2013. <sup>24</sup>   |   |
| 13 May 2013  | <b>China</b> reports to the OIE an outbreak of H5N1 in Tibet Autonomous Region in backyard poultry.<br><br><b>Democratic People's Republic of Korea</b> reports to the OIE an outbreak of H5N1 in P'yongyang-Si in a duck farm. (This is the first report of this virus in the country.) |   |
| 23 May 2013  | FAO published the occurrence of 5 H5 outbreaks in household poultry in the Dakahlia (1), Sharkia (2) and Sohag (2) governorates of <b>Egypt</b> , between 7 and 14 May 2013. <sup>24</sup>   |   |
| 26 May 2013  | <b>Nepal</b> reports to the OIE 32 outbreaks of H5N1, 6 in Bagmati zone, 1 in Gandaki zone, 3 in Lumbini zone, 14 in Narayani zone, 7 in Mechi zone and 1 in Seti zone, in backyard poultry, commercial broiler and layer farms and in a wild house crow ( <i>Corvus splendens</i> ).    |   |
| 30 May 2013  | FAO published the occurrence of an H5 outbreak in household poultry in the Luxor governorate of <b>Egypt</b> , on 16 May 2013. <sup>24</sup>   |   |
| 4 June 2013  |  | <b>Cambodia</b> confirms its 32 <sup>nd</sup> human case, in a 5-year-old girl from Kampong Speu province (onset date 28 January). The case was identified retrospectively through surveillance activities.<br><br><b>Egypt</b> confirms its 173 <sup>rd</sup> human case, in a 25-year-old woman from Sohag governorate (onset date 25 April). |
| 6 June 2013  | FAO published the occurrence of 2 H5 outbreaks in household poultry and a commercial layer farm in the Dakahlia governorate of <b>Egypt</b> , on 5 May 2013. <sup>24</sup>   |   |
| 13 June 2013 | FAO published the occurrence of an H5 outbreak in household poultry in the Qaliyoubia governorate of <b>Egypt</b> , on 4 June 2013. <sup>24</sup>  |   |
| 20 June      | FAO published the  |   |

|                  |  |   |
|------------------|--|---|
| 2013             | occurrence of 6 H5 outbreaks in household poultry in the Alexandria (2) and Sharkia (4) governorates of <b>Egypt</b> , between 4 and 12 June 2013. <sup>24</sup>                                       |   |
| 30 June 2013     | <b>Nepal</b> reports to the OIE 3 outbreaks of H5N1, 2 in Lumbini zone and 1 in Narayani zone, in backyard poultry and a broiler farm.   |   |
| 4 July 2013      |  | <b>Cambodia</b> confirms its 33 <sup>rd</sup> human case, in a 58-year-old man from Phnom Penh (onset date 4 January, identified retrospectively) and its 34 <sup>th</sup> human case, in a 6-year-old girl from Kampot province (onset date 24 June).<br><br><b>Indonesia</b> confirms its 193 <sup>rd</sup> human case, in a 2-year-old boy from West Java province (onset date 10 June). The last case confirmed by Indonesia had an onset of November 2012. |
| 4 July 2013      | FAO published the occurrence of 2 H5 outbreaks in household poultry in the Cairo governorate of <b>Egypt</b> , between 18 and 20 June 2013. <sup>24</sup>  |   |
| 1 August 2013    | FAO published the occurrence of an H5 outbreak in village ducks in West Java province, <b>Indonesia</b> , from early July to 28 July 2013. <sup>24</sup>   |   |
| 5 August 2013    | <b>India</b> reports to the OIE 2 outbreaks of H5N1 in poultry farms in Chattisgarh state.   |   |
| 19 August 2013   | <b>Cambodia</b> reports to the OIE an outbreak of H5N1 in Battambang province in backyard poultry.   |   |
| 29 August 2013   |  | <b>Cambodia</b> confirms its 35 <sup>th</sup> human case, in a 3-year-old boy from Prey Veng province (onset date 3 July), its 36 <sup>th</sup> human case, in a 9-year-old boy from Battambang province (onset date 26 July), its 37 <sup>th</sup> human case, in a 5-year-old girl from Kandal province (onset date 1 August), and its 38 <sup>th</sup> human case, in a 6-year-old boy from Kandal province (onset date 21 July).                            |
| 29 August 2013   | FAO published the occurrence of an H5 outbreak in a commercial broiler chicken farm in the Fayoum governorate of <b>Egypt</b> , on 5 August 2013. <sup>24</sup>  |   |
| 9 September 2013 | <b>Nepal</b> reports to the OIE 9 outbreaks of H5N1 in Bagmati zone in backyard poultry, commercial broiler and layer farms, a parent stock farm and in a wild house crow ( <i>Corvus splendens</i> ). |   |
| 11               | <b>Nepal</b> reports to the OIE 12   |   |

|                   |   |  |
|-------------------|---|--|
| September 2013    | outbreaks of H5N1, 9 in Bagmati zone, 2 in Gandaki zone and 1 in Narayani zone, in backyard poultry, commercial broiler and layer farms and parent stock farms.   |  |
| 21 September 2013 | <b>Nepal</b> reports to the OIE 43 outbreaks of H5N1, 40 in Bagmati zone, 1 in Janakpur zone and 2 in Lumbini zone, in backyard poultry, commercial broiler and layer farms, and parent stock farms.  |  |
| 3 October 2013    | FAO published the occurrence of an H5 outbreak in poultry in 2 unvaccinated ducks in the Giza governorate of <b>Egypt</b> . <sup>24</sup>   |  |
| 7 October 2013    |   | <b>Cambodia</b> confirms its 39 <sup>th</sup> human case, in a 15-month-old boy from Phnom Penh (onset date 16 August), its 40 <sup>th</sup> human case, in a 5-year-old girl from Takeo province (onset date 7 September), and its 41 <sup>st</sup> human case, in a 2-year-old girl from Kampot province (onset date 11 September).<br><br><b>Indonesia</b> confirms its 194 <sup>th</sup> human case, in a 28-year-old man from West Java province (onset date 16 September). |
| 14 October 2013   | <b>Viet Nam</b> reports to the OIE an outbreak of H5N1 in Hoa Binh in backyard poultry.   |  |
| 14 November 2013  | FAO published the occurrence of 2 H5 outbreaks in a live bird market and household poultry in the Giza (1) and Menoufiya (1) governorates of <b>Egypt</b> , between 25 September and 22 October 2013. <sup>24</sup>   |  |
| 12 November 2013  | <b>Nepal</b> reports to the OIE 85 outbreaks of H5N1, 83 in Bagmati zone, 1 in Bheri zone and 1 in Narayani zone, in backyard poultry, commercial broiler and layer farms and parent stock farms.   |  |
| 28 November 2013  | FAO published the occurrence of H5N1 outbreaks in poultry in Chongqing, Hunan, and Guangxi provinces, <b>China</b> during July 2013. Out of 24,696 tissue samples, 27 samples (10 from chickens and 17 from ducks) tested positive for H5N1 HPAI. <sup>24</sup> |  |
| 5 December 2013   | FAO published the occurrence of an H5N1 outbreak in poultry in Quang  |  |

|                  |  |  |
|------------------|--|--|
|                  | Ngai Province, <b>Viet Nam</b> , on 2 December 2013. <sup>24</sup>   |  |
| 5 December 2013  | FAO published the occurrence of 2 H5 outbreaks in household poultry in the Sharkia governorate of <b>Egypt</b> , between 19 and 25 November 2013. <sup>24</sup>  |  |
| 10 December 2013 |  | <p><b>Cambodia</b> confirms its 42<sup>nd</sup> human case, in an 8-year-old girl from Kampong Thom province (onset date 8 October), its 43<sup>rd</sup> human case, in a 6-year-old girl from Battambang province (onset date 14 October), its 44<sup>th</sup> human case, in a 2-year-old girl from Pursat province (onset date 17 October), its 45<sup>th</sup> human case, in a 10-year-old boy from Kampot province (onset date 28 October), its 46<sup>th</sup> human case, in a 3-year-old boy from Kampong Speu province (onset date 5 November), and its 47<sup>th</sup> human case, in a 29-year-old man from Pailin province (onset date 26 October).</p> <p><b>Indonesia</b> confirms its 195<sup>th</sup> human case, in a 31-year-old woman from West Java province (onset date 1 November).</p> |
| 19 December 2013 | FAO published the occurrence of 2 H5 outbreaks in household poultry in the Giza and Menoufiya governorates of <b>Egypt</b> , between 29 November and 09 December 2013. <sup>24</sup>   |  |
| 30 December 2013 | FAO published the occurrence of 29 H5N1 outbreaks in household poultry in villages in <b>Indonesia</b> , between 06 and 30 December 2013 <sup>24</sup>   |  |
| 2 January 2014   | <b>China</b> reports to the OIE an outbreak of H5N1 in Guizhou in a poultry farm with a susceptible population of 31,567 chickens, ducks and geese. All the cases were chickens and all susceptible birds were destroyed. (This is the first report since May 2013). |  |
| 9 January 2014   | FAO published the occurrence of 4 H5 outbreaks in household chickens and ducks in the Beni Suef (2), Dakahlia and Menoufiya governorates of <b>Egypt</b> , between 24 December 2013 and 2 January 2014. <sup>24</sup>  |  |
| 10 January 2014  | <b>Viet Nam</b> reports to the OIE 4 outbreaks of H5N1 in Bac Ninh in backyard poultry. Stamping out is applied.   |  |
| 13 January       | <b>China</b> reports to the OIE an   |  |

|                  |  |  |
|------------------|--|--|
| 2014             | outbreak of H5N1 in Hubei in a poultry farm.   |  |
| 23 January 2014  | FAO published the occurrence of 3 H5 outbreaks in household chickens and ducks in the Dakahlia, Giza and Kafr el Sheikh governorates of <b>Egypt</b> , between 01 and 09 January 2014. <sup>24</sup>   |  |
| 24 January 2014  |  | <b>Canada</b> confirms its 1 <sup>st</sup> human case in a resident of Alberta province (onset date 27 December 2013) who had traveled to China in the 3 weeks before disease onset.<br><br><b>Viet Nam</b> confirms its 126 <sup>th</sup> human case, in a 52-year-old man from Binh Phuoc province (onset date 11 January 2014). The last case confirmed by Viet Nam had an onset of April 2013. |
| 30 January 2014  | FAO published the occurrence of 9 H5 outbreaks in household poultry in the Beni Suef, Dakahlia (3), Gharbia, Giza, Ismailia, Qena and Sohag governorates of <b>Egypt</b> , between 15 and 21 January 2014. <sup>24</sup><br><br>FAO published the occurrence of 29 H5N1 outbreaks in household poultry in villages in <b>Indonesia</b> , between 02 and 29 January 2014. <sup>24</sup> |  |
| 06 February 2014 | FAO published the occurrence of 2 H5 outbreaks in household poultry in the Beni Suef and Damietta governorates of <b>Egypt</b> , between 22 and 29 January 2014. <sup>24</sup>   |  |
| 12 February 2014 | <b>Cambodia</b> reports to the OIE an outbreak of H5N1 in Kampong Cham in ducks. Stamping out is applied. (This is the first report since August 2013).  |  |
| 13 February 2014 | <b>Viet Nam</b> reports to the OIE 6 outbreaks of H5N1 in Ca Mau, Khanh Hoa, Kon Tum, Nam Dinh, Quang Ngai and Tay Ninh in backyard poultry. Stamping out is applied.  |  |
| 13 February 2014 | FAO published the occurrence of 5 H5 outbreaks in household poultry in the Beheira, Dakahlia, Fayoum, Qaliyoubia and Sharkia governorates of <b>Egypt</b> .  |  |



|                  |  |  |
|------------------|--|--|
|                  | between 28 January and 02 February 2014. <sup>24</sup>   |  |
| 15 February 2014 | <b>Viet Nam</b> reports to the OIE 4 outbreaks of H5N1 in Dak Lak, Lao Cai, Long An and Phu Yen in backyard poultry.   |  |
| 18 February 2014 | <b>China</b> reports to the OIE an outbreak of H5N1 in Guizhou in a poultry farm.  |  |
| 20 February 2014 | <b>China</b> reports to the OIE an outbreak of H5N1 in Guizhou in a poultry farm.<br><br>FAO published the occurrence of 5 H5 outbreaks in household poultry in the Beni Suef (1), Dakahlia (2), Giza and Kafr el Sheikh governorates of <b>Egypt</b> , between 05 and 09 February 2014. <sup>24</sup> |  |
| 21 February 2014 | <b>India</b> reports to the OIE an outbreak of H5N1 in a wild house crow ( <i>Corvus splendens</i> ) in Orissa state. (This is the first report since August 2013).  |  |
| 22 February 2014 | <b>Viet Nam</b> reports to the OIE 7 outbreaks of H5N1 in Ba Ria - Vung Tau, Can Tho, Ha Tinh, Nghe An, Quang Binh, Thanh Hoa, Vinh Long in backyard poultry.  |  |
| 25 February 2014 | <b>Viet Nam</b> reports to the OIE 4 outbreaks of H5N1 in Bac Lieu, Binh Dinh, Phu Tho and Tra Vinh in backyard poultry.   | <b>Viet Nam</b> confirms its 127 <sup>th</sup> human case, in a 60-year-old woman from Dong Thap province (onset date 22 January).<br><br><b>Cambodia</b> confirms its 48 <sup>th</sup> human case, in a 5-year-old boy from Kampong Thom province (onset date 24 January), its 49 <sup>th</sup> human case, in an 8-year-old boy from Kratie province (onset date 31 January), its 50 <sup>th</sup> human case, in a 4-year-old boy from Kratie province (onset date 8 February), its 51 <sup>st</sup> human case, in a 10-year-old girl from Kampong Cham province (onset date 26 January), and its 52 <sup>nd</sup> human case, in a 11-year-old girl from Kampong Cham province (onset date 9 February).<br><br><b>China</b> confirms its 46 <sup>th</sup> human case, in a 75-year-old man from Guangxi province (onset date not available) and its 47 <sup>th</sup> human case, in a 5-year-old girl from Hunan province (onset date 17 Feb 2014). The last case confirmed by China had an onset of February 2013. |
| 26 February 2014 | <b>Cambodia</b> reports to the OIE 2 outbreaks of H5N1 in Kampong Speu and Kandal in backyard chicken and ducks.<br><br><b>Nepal</b> reports to the OIE an outbreak of H5N1 in Koshi in  |  |

|                  |   |  |
|------------------|---|--|
|                  | a commercial a layer farm.  |  |
| 27 February 2014 | FAO published the occurrence of 7 H5 outbreaks in household poultry in the Assiut (1), Beni Suef (1), Dakahlia (1), Fayoum (2), Qaliyoubia (1) and Sharkia (1) governorates of <b>Egypt</b> , between 13 and 22 February 2014. <sup>24</sup>  |  |
| 1 March 2014     | <b>Viet Nam</b> reports to the OIE 4 outbreaks of H5N1 in Gia Lai, Hai Duong, Hung Yen and Soc Trang in backyard poultry.   |  |
| 06 March 2014    | FAO published the occurrence of 7 H5 outbreaks in household poultry in the Assiut (2), Gharbia, Giza (3) and Sharkia governorates of <b>Egypt</b> , between 20 and 28 February 2014. <sup>24</sup><br><br>FAO published the occurrence on 24 February 2014 of a H5N1 outbreak in household poultry in Phnom Penh, <b>Cambodia</b> . <sup>24</sup><br><br><b>Viet Nam</b> reports to the OIE 2 outbreaks of H5N1 in Binh Duong and Ninh Thuan in backyard poultry. |  |
| 7 March 2014     | <b>China</b> reports to the OIE an outbreak of H5N1 in Yunnan in backyard poultry.<br><br><b>Viet Nam</b> reports to the OIE 2 outbreaks of H5N1 in Can Tho and Gia Lai in backyard poultry.  |  |
| 10 March 2014    | <b>Viet Nam</b> reports to the OIE an outbreak of H5N1 in Dong Nai in backyard poultry.   |  |
| 11 March 2014    | <b>Viet Nam</b> reports to the OIE 2 outbreaks of H5N1 in Ha Giang and Quang Nam in backyard poultry.   |  |
| 12 March 2014    | <b>Viet Nam</b> reports to the OIE an outbreak of H5N1 in Ben Tre in backyard poultry.<br><br><b>Libya</b> reports to the OIE an outbreak of H5N1 in Tubruq in local backyard chickens and ducks. This is the first occurrence of H5N1 HPAI in the country.   |  |
| 13 March         | FAO published the occurrence of 2 H5 outbreaks  |  |

|               |   |   |
|---------------|---|---|
| 2014          | <p>in household poultry in the Dakahlia and Fayoum governorates of <b>Egypt</b>, on 03 March 2014.<sup>24</sup></p> <p>FAO published that <b>China</b> identified 34 H5N1 positive findings in household poultry, which occurred in 11 different provinces in December 2013.<sup>24</sup></p> |   |
| 15 March 2014 | <b>Cambodia</b> reports to the OIE an outbreak of H5N1 in Phnom Penh in local chickens raised for research.   |   |
| 20 March 2014 | <b>Viet Nam</b> reports to the OIE an outbreak of H5N1 in Binh Thuan in backyard poultry.   |   |
| 21 March 2014 | <b>Cambodia</b> reports to the OIE an outbreak of H5N1 in Kampot in backyard poultry.   |   |
| 24 March 2014 |   | <p><b>Cambodia</b> confirms its 53<sup>rd</sup> human case, in a 3-year-old boy from Phnom Penh (onset date 22 February), its 54<sup>th</sup> human case, in an 8-year-old boy from Kandal province (onset date 24 February), its 55<sup>th</sup> human case, in an 11-year-old boy from Kampong Chhnang province (onset date 3 March), and its 56<sup>th</sup> human case, in a 2-year-old girl from Kampot province (onset date 8 March).</p> <p><b>Egypt</b> confirms its 174<sup>th</sup> human case, in a 56-year-old woman from Beheira governorate (onset date 6 March) and its 175<sup>th</sup> human case, in a 4-year-old girl from Damietta governorate (onset date 7 March). The last case confirmed by Egypt had an onset of April 2013.</p> |
| 27 March 2014 | FAO published the occurrence of 3 H5N1 outbreaks in household poultry in the Beni Suef and Dakahlia (2) governorates of <b>Egypt</b> , between 12 and 19 March 2014. <sup>24</sup>  |   |
| 03 April 2014 | FAO published the occurrence of 6 H5N1 outbreaks in household poultry in the Beheira (1), Damietta (1), Giza (3) and Menoufiya (1) governorates of <b>Egypt</b> , between 19 and 25 March 2014. <sup>24</sup>   |   |
| 10 April 2014 | FAO published the occurrence of 6 H5N1 outbreaks in household poultry in the Beni Suef, Dakahlia (2), Damietta, and Qena (2) governorates of <b>Egypt</b> , between 26 March and 1 April 2014. <sup>24</sup>  |   |
| 16 April 2014 | <b>Democratic People's Republic of Korea</b> reports to the OIE two outbreaks of  |   |

|               |   |   |
|---------------|---|---|
|               | H5N1 in P'yongyang-Si in two chicken farms. (This is the first report of H5N1 from Democratic People's Republic of Korea since May 2013).   |   |
| 17 April 2014 | FAO published the occurrence of 2 H5N1 outbreaks in household poultry in the Beni Suef and Dakahlia governorates of <b>Egypt</b> , on 05 April 2014. <sup>24</sup>  |   |
| 22 April 2014 | <b>Democratic People's Republic of Korea</b> reports to the OIE one outbreak of H5N1 in Hwanghae-Bukto in backyard chickens and geese.  |   |
| 24 April 2014 | FAO published the occurrence of 10 H5N1 outbreaks in household poultry in the Assiut (2), Dakahlia (3), Damietta (2), Giza and Qena (2) governorates of <b>Egypt</b> , between 10 and 16 April 2014. <sup>24</sup>                              |   |
| 5 May 2014    |   | <b>Indonesia</b> confirms its 196 <sup>th</sup> human case, in a 2-year-old boy from Central Java province (onset date 10 April). The last case confirmed by Indonesia had an onset of November 2013. |
| 8 May 2014    | FAO published the occurrence of 3 H5N1 outbreaks in household poultry in the Qena, Sharkia and Sohag governorates of <b>Egypt</b> , between 22 and 26 April 2014. <sup>24</sup>   |   |
| 22 May 2014   | FAO published the occurrence of 10 H5N1 outbreaks in household poultry in the Menoufiya, Assiut (2), Giza, Beni Suef (2), Dakahlia, Kafr-el-Sheikh (2) and Sohag governorates of <b>Egypt</b> , between 30 April and 10 May 2014. <sup>24</sup> |   |
| 04 June 2014  | FAO published the occurrence of 6 H5N1 outbreaks in household poultry in the Beheira, Menia, Fayoum, Assiut, Giza and Beni Suef governorates of <b>Egypt</b> , between 30 April and 26 May 2014. <sup>24</sup>                                  |   |
| 19 June 2014  | FAO published the occurrence of 15 H5N1 outbreaks in household poultry in the Dakahlia, Ismailia, Giza (4), Menia, Menoufiya, Cairo (2), Assiut and Beni Suef (4)   |   |

|                   |   |   |
|-------------------|---|---|
|                   | governorates of <b>Egypt</b> , between 1 and 11 June 2014. <sup>24</sup>  |   |
| 27 June 2014      |   | <b>Indonesia</b> confirms its 197 <sup>th</sup> human case, in a 33-year-old man from Jakarta (onset date 1 June).<br><br><b>Egypt</b> confirms its 176 <sup>th</sup> human case, in a 34-year-old man from Menia governorate (onset date 15 June). |
| 3 July 2014       | FAO published the occurrence of 11 H5N1 outbreaks in household poultry in the Dakahlia, Giza, Beni Suef, Kafr-el-Sheikh, Damietta, Qena (2) and Sohag (4) governorates of <b>Egypt</b> , between 23 April and 22 June 2014. <sup>24</sup>           |   |
| 17 July 2014      | FAO published the occurrence of 20 H5N1 outbreaks in household poultry in the Fayoum, Gharbia, Giza, Menoufiya (2), Menia (3), Cairo, Assiut (4), Qena (2), Sohag (5) governorates of <b>Egypt</b> , between 17 June and 8 July 2014. <sup>24</sup> |   |
| 14 August 2014    | FAO published the occurrence of 2 H5N1 outbreaks in household poultry in the Dakahlia and Qena governorates of <b>Egypt</b> , between 27 July and 3 August 2014. <sup>24</sup>  |   |
| 28 August 2014    | FAO published the occurrence of 1 H5N1 outbreak in household poultry in the Sohag governorate of <b>Egypt</b> , on 19 August 2014. <sup>24</sup>  |   |
| 11 September 2014 | FAO published the occurrence of 2 H5N1 outbreaks in household poultry in the Fayoum and Sohag governorates of <b>Egypt</b> , on 3 September 2014. <sup>24</sup>   |   |
| 25 September 2014 | FAO published the occurrence of 1 H5N1 outbreak in household poultry in the Giza governorate of <b>Egypt</b> , on 3 September 2014. <sup>24</sup>   |   |
| 30                | <b>Russia</b> reports to the OIE 2  |   |

|                  |  |  |
|------------------|--|--|
| September 2014   | outbreaks of H5N1 in Altayskiy Kray in domestic chickens, geese and ducks. (This is the first report of H5N1 in Russia since December 2012).   |  |
| 2 October 2014   |  | <b>Egypt</b> confirms its 177 <sup>th</sup> human case, in a 2-year-old girl from Giza governorate (onset date 22 September).    |
| 09 October 2014  | FAO published the occurrence of 4 H5N1 outbreaks in household poultry in the Dakahlia, Giza (2) and Cairo governorates of <b>Egypt</b> , between 22 and 24 September 2014. <sup>24</sup>   |  |
| 23 October 2014  | FAO published the occurrence of 2 H5N1 outbreaks in household poultry in the Gharbia and Giza governorates of <b>Egypt</b> , on 14 October 2014. <sup>24</sup>   |  |
| 24 October 2014  | <b>China</b> reports to the OIE 16 outbreaks of H5N1 in Guangdong, Guangxi, Guizhou, Hunan, Jiangsu, Qinghai, Tibet and Yunnan in poultry markets.   |  |
| 06 November 2014 | FAO published the occurrence of 2 H5N1 outbreaks in household poultry in the Aswan and Dakahlia governorates of <b>Egypt</b> , between 15 and 16 October 2014. <sup>24</sup>   |  |
| 20 November 2014 | FAO published the occurrence of 19 H5N1 outbreaks in household poultry and commercial live birds markets in the Dakahlia, Fayoum, Ismailia, Giza, Cairo, Qaliyoubia (2), Aswan (3), Assiut, Beni Suef (3), Port Said, Qena (2) and Sohag (2) governorates of <b>Egypt</b> , between 22 October and 10 November 2014. <sup>24</sup> |  |
| 27 November 2014 | <b>India</b> reports to the OIE 2 outbreaks of H5N1 in backyard ducks in Kerala state. (This is the first report of H5N1 from India since February 2014).  |  |
| 3 December 2014  | <b>India</b> reports to the OIE 1 outbreak of H5N1 in backyard ducks in Kerala state.  |  |
| 04 December      | FAO published the occurrence of 21 H5N1  | <b>Egypt</b> confirms its 178 <sup>th</sup> human case, in a 3-year-old boy from Menia governorate (onset date 11 November), its |

|      |   |  |
|------|---|--|
| 2014 | <p>outbreaks in household poultry and commercial live birds markets in the Aswan (3), Assiut, Cairo, Gharbia (3), Giza (2), Ismailia (3), Menia (2), Menoufiya, Qena (2), Sohag (2) and Suez governorates of <b>Egypt</b>, between 11 and 25 November 2014.<sup>24</sup></p> <p><b>India</b> reports to the OIE 1 outbreak of H5N1 in backyard ducks in Kerala state.</p> | <p>179<sup>th</sup> human case, in a 19-year-old woman from Assiut governorate (onset date 7 November), its 180<sup>th</sup> human case, in a 30-year-old woman from Menia governorate (onset date 11 November), its 181<sup>st</sup> human case, in a 2-year-old girl from Menia governorate (onset date 12 November), its 182<sup>nd</sup> human case, in a 43-year-old man from Menia governorate (onset date 20 November), its 183<sup>rd</sup> human case in a 29-year-old woman from Menia governorate (onset date 22 November), its 184<sup>th</sup> human case in a 35-year-old woman from Beni Suef governorate (onset date 23 November), and its 185<sup>th</sup> human case in a 24-year-old woman from Menia governorate (onset date 24 November).</p> |
|------|---|--|

Notes:

As of 1 April 2006: reports of influenza infection in animals refer to official OIE reports, as available on <http://www.oie.int/en/animal-health-in-the-world/update-on-avian-influenza/2014/>, unless otherwise noted.

As of December 2012: the confirmation date for human cases is given as the day WHO posts the information publicly on the website ([http://www.who.int/influenza/human\\_animal\\_interface/HAI\\_Risk\\_Assessment/en/index.html](http://www.who.int/influenza/human_animal_interface/HAI_Risk_Assessment/en/index.html)). The clinical onset date is given within the technical information.

As of November 2013: this document is now being prepared jointly by the World Health Organization, the World Organisation for Animal Health and the Food and Agriculture Organization under the tripartite collaboration. Before, it was a WHO publication.

## References

1. Songserm, T et al. Avian Influenza H5N1 in Naturally Infected Domestic Cat. *Emerging Infectious Diseases*. www.cdc.gov/eid Vol. 12, No. 4, Apr 2006.
2. Hien TT et al. Avian influenza A (H5N1) in 10 patients in Viet Nam. *N Engl J Med* 2004; 350:1179–88.
3. Li KS et al. Genesis of a highly pathogenic and potentially pandemic influenza virus in eastern Asia. *Nature* 2004; 430: 209–213.
4. Chen H et al. The evolution of H5N1 influenza viruses in ducks in southern China. *Proc Natl Acad Sci USA* 2004; 101: 10452–57.
5. Apisarnthanarak A et al. Atypical avian influenza (H5N1). *Emerg Infect Dis* 2004; 10: 1321–24.
6. Verbal report at WHO international consultation.
7. Kuiken T et al. Avian H5N1 influenza in cats. Published online by Science: www.sciencemag.org/cgi/content/abstract/1102287
8. Issued (prior to publication) on WHO website: Avian influenza – situation in Asia: altered role of domestic ducks, 29 October 2004; available online at: [http://www.who.int/csr/don/2004\\_10\\_29/en/index.html](http://www.who.int/csr/don/2004_10_29/en/index.html)
9. Ungchusak K et al. Probable person-to-person transmission of avian influenza A (H5N1). *N Engl J Med* 2005; 352:4 333–40.
10. De Jong M et al. Fatal avian influenza A (H5N1) in a child presenting with diarrhea followed by coma. *N Engl J Med* 2005; 352:7 686–91.
11. Liu J et al. Highly pathogenic H5N1 influenza virus infection in migratory birds. *ScienceExpress* 2005. Published online at: www.sciencemag.org/cgi/contents/abstract/1115273
12. Chen H et al. H5N1 virus outbreak in migratory waterfowl. *Nature* 2005; 436: 191–92.
13. Writing Committee of the World Health Organization (WHO) Consultation on Human Influenza A/H5. *N Engl J Med* 2005; 353:13 54–65.
14. World Health Organization Global Influenza Program Surveillance Network. *Emerg Infect Dis* 2005; 11: 1515–21.
15. Taubenberger JK et al. Characterization of the 1918 influenza virus polymerase genes. *Nature* 2005; 437: 889–93.
16. Tumpey TM et al. Characterization of the reconstructed 1918 Spanish influenza pandemic virus. *Science* 2005; 310: 77–80.
17. Yingst S., et al., Qinghai-like H5N1 from Domestic Cats, Northern Iraq. *Letter, Emerging Infectious Diseases* 2006, 12(8):1295
18. Chen H et al. Establishment of multiple sublineages of H5N1 influenza virus in Asia: implications for pandemic control. *Proc Natl Acad Sci USA* 2006; 103: 2845–2850.
19. Shinya K et al. Influenza virus receptors in the human airway. *Nature* 2006; 440: 435–36.
20. van Riel D et al. H5N1 virus attachment to lower respiratory tract. *ScienceExpress* 23 Mar 2006. Published online at: <http://www.sciencemag.org/cgi/content/abstract/1125548>
21. World Health Organization. Epidemiology of WHO-confirmed human cases of avian influenza A(H5N1) infection. *Weekly Epidemiological Record*, 2006, 81:249–260
22. Smith et al. Emergence and predominance of an H5N1 influenza variant in China. *Proc Natl Acad Sci U S A*. 2006 Nov 7; 103(45):16936-41. Epub 2006 Oct 30
23. World Health Organization. Update: WHO-confirmed human cases of avian influenza A(H5N1) infection, 25 November 2003– 24 November 2006. *Weekly Epidemiological Record*, 2007, 82:41–48.
24. Food and Agriculture Organization of the United Nations. EMPRES. EMPRES-i (Database). (Latest update: 07 Nov 2013) Accessed (20 Dec 2013). URI: <http://data.fao.org/ref/d6c36114-51f9-40fc-bec1-8eea8f74d2a0.html?version=1.0>.
25. Sedyaningsih, E., Isfandari, S., Setiawaty, V., Rifati, L., Harun, S., Purba, W., Imari, S., Giriputra, S., Blair, P., Putnam, S., Uyeki, T., and Soendoro1, T. 2007. Epidemiology of Cases of H5N1 Virus Infection in Indonesia, July 2005–June 2006. *Journal of Infectious Diseases* 196:522 - 527.



26. Gilbert M, Xiao X, Pfeiffer DU, Epprecht M, Boles S, Czarnecki C, Chaitaweesub P, Kalpravidh W, Minh PQ, Otte MJ, Martin V, Slingenbergh J. 2008. Mapping H5N1 highly pathogenic avian influenza risk in Southeast Asia. *Proc Natl Acad Sci USA*. 105(12):4769-74. Epub 2008 Mar 24. Available online at: <http://www.pnas.org/cgi/content/full/105/12/4769>
27. Bulletin on Avian Influenza in Cambodia, Issue 182, 19 Dec 2008. (Prepared by UN system in Cambodia with the Royal Government of Cambodia and Development Partners).
28. Strengthening Avian Influenza Detection and Response (SAIDR) joint website <http://www.saidr.org/en/animals.php#170309>
29. FAO EMPRES H5N1 HPAI Global overview - August 2009, issue 14. Available at : <ftp://ftp.fao.org/docrep/fao/012/ak146e/ak146e00.pdf>
30. [www.who.int/csr/disease/avian\\_influenza/country/cases\\_table\\_2010\\_11\\_19](http://www.who.int/csr/disease/avian_influenza/country/cases_table_2010_11_19)