

This weekly bulletin provides updates on threats monitored by ECDC.

I. Executive summary

EU Threats

Influenza - Multistate (Europe) - Monitoring 2012-2013 season

Opening date: 2 December 2011

Latest update: 24 May 2012

Following the 2009 pandemic, influenza transmission in Europe has returned to its seasonal epidemic pattern, with peak activity seen during winter months. ECDC monitors influenza activity in Europe during the winter seasons and publishes the results on its website in the Weekly Influenza Surveillance Overview. There is currently intense media interest in the 2012-2013 influenza season.

→Update of the week

In week 3/2013 (14–20 Jan 2013), thirteen countries and the UK (Northern Ireland) reported medium intensity and Iceland reported high intensity. Geographic spread was reported as widespread or regional by 13 countries.

Rubella - Multistate (EU) - Monitoring European outbreaks

Opening date: 7 March 2012

Latest update: 19 September 2012

Rubella, caused by the rubella virus and commonly known as German measles, is usually a mild and self-limiting disease and is an infection which often passes unnoticed. The main reason for immunising against rubella is the high risk of congenital malformations associated with rubella infection during pregnancy. All EU Member States recommend vaccination against rubella with at least two doses of vaccine for both boys and girls. The vaccine is given at the same intervals as the measles vaccine as part of the MMR vaccine.

→Update of the week

During the week leading up to 25 January 2013, no new outbreaks were detected in EU Member States.

Measles - Multistate (EU) - Monitoring European outbreaks

Opening date: 9 February 2011

Latest update: 22 October 2012

Measles, a highly transmissible vaccine-preventable disease, is still endemic in many countries of Europe due to a decrease in the uptake of immunisation. More than 30 000 cases were reported in EU Member States in each of the last two years. However, the number of outbreaks and reported cases in Member States in 2012 were significantly lower than during 2010 and 2011. As of 31 October 2012, 7 016 cases of measles had been reported to the European Surveillance System (TESSy) for 2012. France, Italy, Romania, Spain and the United Kingdom accounted for 94% of the reported cases.

→Update of the week

During the week leading up to 25 January 2013, no new outbreaks were detected in EU Member States.

Non EU Threats

Dengue - Multistate (world) - Monitoring seasonal epidemics

Opening date: 20 April 2006

Latest update: 24 January 2013

Dengue fever is one of the most prevalent vector-borne diseases in the world, affecting an estimated 50-100 million people each year, mainly in the tropical regions of the world. The identification of sporadic autochthonous cases in non-endemic areas in recent years has already highlighted the risk of the occurrence of locally acquired cases in EU countries where the competent vectors are present. The detection of a dengue outbreak in the Autonomous Region of Madeira, Portugal, further underlines the importance of surveillance and vector control in other European countries.

→Update of the week

The Autonomous Region of Madeira, Portugal experienced an outbreak of dengue starting in October 2012 with sporadic cases still being reported. No autochthonous cases were reported in other European countries in 2012 and at the start of 2013.

Poliomyelitis - Multistate (world) - Monitoring global outbreaks

Opening date: 8 September 2005

Latest update: 24 January 2013

Polio, a crippling and potentially fatal vaccine-preventable disease mainly affecting children under five years of age, is close to being eradicated from the world after a significant global public health investment and effort. The WHO European Region is polio-free. Worldwide, 222 cases were reported in 2012 compared with 650 cases in 2011.

→Update of the week

During the week leading up to 23 January 2013, there were no new polio cases reported to WHO.

In Egypt, WPV has been isolated from environmental samples in two areas of greater Cairo.

Influenza A(H5N1) - Multistate (world) - Monitoring human cases

Opening date: 15 June 2005

Latest update: 12 December 2012

The influenza A(H5N1) virus, commonly known as bird flu, is fatal in about 60% of human infections, and sporadic cases continue to be reported, usually after contact with sick or dead poultry from certain Asian and African countries. No human cases have been reported from Europe.

→Update of the week

Since the last update on 17 December 2012, three new laboratory-confirmed human cases with influenza A(H5N1) virus infection, including two fatalities, were reported to WHO. All three patients were from Cambodia.

II. Detailed reports

Influenza - Multistate (Europe) - Monitoring 2012-2013 season

Opening date: 2 December 2011

Latest update: 24 May 2012

Epidemiological summary

Weekly reporting of influenza surveillance for the 2012-2013 season in Europe started in week 40/2012 and notable transmission began in week 49/2012, about six weeks earlier than in 2011-2012. In week 3/2013 (14–20 Jan 2013),

- Thirteen countries and the UK (Northern Ireland) reported medium intensity and Iceland reported high intensity. Geographic spread was reported as widespread or regional by 13 countries.
- Since week 40/2012, 48% of influenza-positive sentinel specimens were type A, and 52% were type B viruses. Of 1 253 influenza A viruses subtyped, 58% were A(H1)pdm09 and 42% were A(H3). Of 269 type B viruses with known lineage, 86% were Yamagata and 14% were Victoria. The latter lineage is not included in the 2012-2013 vaccine.
- For week 3/2013, all eight reporting countries described hospitalised severe influenza cases, 30 in total. Of seven sub-typed A viruses from these patients, six were A(H1N1)pdm09 and one A(H3).

Web source: [ECDC Weekly Influenza Surveillance Overview](#) |

ECDC assessment

Based on the ILI/ARI intensity and the percentage of influenza-virus positive sentinel specimens at the EU/EEA level, influenza activity seems to have peaked in some countries and to have stabilised in Europe.

Actions

ECDC has updated its influenza website for the start of the season and is preparing its annual seasonal influenza risk assessment.

Rubella - Multistate (EU) - Monitoring European outbreaks

Opening date: 7 March 2012

Latest update: 19 September 2012

Epidemiological summary

No new outbreaks have been identified since the last update.

From 1 January to 31 October 2012, 26 014 cases of rubella were reported by the 26 EU/EEA countries, contributing to the enhanced surveillance for rubella. Poland and Romania accounted for 99% of all reported rubella cases. Romania in particular has experienced a significant increase in the number of reported cases compared with the same period in 2011. Other countries that reported an increased number of rubella cases in 2012 include the UK, Spain and Sweden.

Web sources: [ECDC measles and rubella monitoring](#) | [WHO epidemiological brief summary tables](#) | [ECDC rubella factsheet](#)

ECDC assessment

As rubella is typically a mild and self-limiting disease with few complications, the rationale for eliminating rubella would be weak if it were not for the virus' teratogenic effect. When a woman is infected with the rubella virus within the first 20 weeks of pregnancy, the foetus has a 90% risk of being born with congenital rubella syndrome (CRS), which entails a range of serious incurable illnesses. CRS surveillance plays an important role but because the rubella virus can cause a wide range of conditions from mild hearing impairment to complex malformations which are incompatible with life, such surveillance is biased towards the severe end of the spectrum. Routine control of immunity during antenatal care is important for identifying susceptible women who can be immunised after giving birth and for surveillance of the size of the susceptible female population. The increase in the number of rubella cases reported in 2012 compared with 2011 and the potential for an increase in the number of babies born with CRS are of concern.

Actions

ECDC closely monitors rubella transmission in Europe by analysing the cases reported to the European Surveillance System (TESSy) and through its epidemic intelligence activities. Twenty-four EU and two EEA countries contribute to the enhanced rubella surveillance. The purpose of the enhanced rubella monitoring is to provide regular and timely updates on the rubella situation in Europe in support of effective disease control, increased public awareness and the achievement of the 2015 rubella and congenital rubella elimination target.

Measles - Multistate (EU) - Monitoring European outbreaks

Opening date: 9 February 2011

Latest update: 22 October 2012

Epidemiological summary

No new outbreaks have been detected in EU Member States since the last update.

Web sources: [ECDC measles and rubella monitoring](#) | [ECDC/Euronews documentary](#) | [WHO Epidemiological Brief](#) | [MedISys Measles page](#) | [EUVAC-net ECDC](#) | [ECDC measles factsheet](#)

ECDC assessment

Considerably fewer measles cases have been reported in 2012 than in 2011, primarily due to the dramatic decrease in the number of cases reported from France. There was no increase in the number of cases during the peak transmission season from February to June and there have been very few outbreaks detected by epidemic intelligence methods in 2012. The reduction in notified cases in 2012 indicates that the incidence at EU/EEA level is back at the level before the 2010–2011 outbreaks, but does not signify a long-term downward trend in measles notifications.

ECDC closely monitors measles transmission and outbreaks in the EU and neighbouring countries in Europe through enhanced surveillance and epidemic intelligence activities. The countries in the WHO European Region, which include all EU Member States, have committed to eliminating measles and rubella transmission by 2015. Elimination of measles requires consistent vaccination coverage above 95% with two doses of measles vaccine in all population groups, strong surveillance and effective outbreak control measures.

Dengue - Multistate (world) - Monitoring seasonal epidemics

Opening date: 20 April 2006

Latest update: 24 January 2013

Epidemiological summary

Europe: There have been no reports of confirmed autochthonous dengue infections in Europe in 2013, besides the on-going dengue outbreak in Madeira.

Asia: There is no new update from WHO Western Pacific Region this week. In the Middle East, local media in Jeddah, Saudi Arabia, have reported five cases of dengue fever. This has still not been confirmed but highlights the need for entomological surveillance in the region.

Latin America: High dengue activity is reported across Central America. In South America, an overall high but not unexpected situation is reported, with increasing dengue activity across especially Brazil, Colombia, Bolivia and Paraguay. Of note this week, Campo Grande in Brazil declared a state of emergency after they recorded nearly 7 700 cases since 31 December 2012. The Ministry of Health in Paraguay has so far this year reported a decline in notified dengue cases in both Central and Asuncion.

The Caribbean: There is no new update this week from CDC on the dengue situation in Puerto Rico. According to local health authorities in Cuba, there has been a recent spike of dengue cases across five provinces with 262 confirmed cases reported in 2013.

Web sources:

[HealthMap](#) | [MedISys](#) | [ProMED Asia update](#) | [ProMED Americas update](#) | [WPRO](#) | [CDC](#) |

ECDC assessment

ECDC monitors individual outbreaks, seasonal transmission patterns and inter-annual epidemic cycles of dengue through epidemic intelligence activities in order to identify significant changes in disease epidemiology. Of particular concern is the potential for the

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establishment of dengue transmission in Europe. Local transmission of dengue was reported for the first time in France and Croatia in 2010, and imported cases are detected in other European countries, highlighting the risk of locally acquired cases occurring in countries where the competent vectors are present.

Actions

ECDC has published a technical [report](#) on the climatic suitability for dengue transmission in continental Europe and [guidance for invasive mosquitoes' surveillance](#).

Poliomyelitis - Multistate (world) - Monitoring global outbreaks

Opening date: 8 September 2005

Latest update: 24 January 2013

Epidemiological summary

During the past week no new polio cases were reported to WHO. So far there have been no cases reported with onset of disease in 2013, compared with four for the same period in 2012.

WPV has been isolated from environmental samples in two areas of greater Cairo. Virus has been detected in the sewage only; no case of paralytic polio has been reported. The isolates were detected through routine environmental surveillance in Egypt that involves regular testing of sewage water from multiple sites. The last sample which tested positive for WPV was related to virus from Sudan, in December 2010. Authorities in Egypt, which has been polio-free since 2004, have ordered the immediate vaccination of all children under five years of age in the areas where the samples were found.

Web sources: [Polio Eradication: weekly update](#) | [MedISys Poliomyelitis](#) | [ECDC Poliomyelitis factsheet](#) | [WHO EMRO](#) |

ECDC assessment

Although the Global Polio Eradication Initiative missed its end-2012 milestone of stopping all wild poliovirus transmission globally, the programme brought the world to the brink of eradicating polio as 2012 ended, with the fewest wild polio cases ever reported. Two hundred and twenty-two wild polio cases were reported in 2012 – a reduction of over 60% compared with 2011. However, there are profound concerns about the polio situation for 2013, especially due to difficulties in the immunisation programme in Pakistan. The programme has been severely affected by the recent attacks that have killed several polio vaccination campaign workers in Pakistan. This may well have an effect on neighbouring Afghanistan, which, together with Pakistan and Nigeria, is one of the three remaining polio-endemic countries in the world. Other neighbouring countries, such as China where a polio outbreak in 2011, the first one since 1999, was imported from Pakistan, will be equally at risk. The discovery of the wild polio virus strain in Egypt linked to Pakistan gives cause for further unease.

The WHO European Region remains polio-free.

ECDC follows reports on polio cases worldwide through epidemic intelligence in order to highlight polio eradication efforts and identify events that increase the risk of re-introduction of wild poliovirus (WPV) into the EU.

The last polio cases in the European Union occurred in 2001 when three young Bulgarian children of Roma ethnicity developed flaccid paralysis from WPV. Investigations showed that the virus originated from India. The latest outbreak in the WHO European Region was in Tajikistan in 2010 when WPV1 imported from Pakistan caused an outbreak of 460 reported cases. The last indigenous WPV case in Europe was in Turkey in 1998. An outbreak in the Netherlands in a religious community opposed to vaccinations caused two deaths and 71 cases of paralysis in 1992.

Influenza A(H5N1) - Multistate (world) - Monitoring human cases

Opening date: 15 June 2005

Latest update: 12 December 2012

Epidemiological summary

On 25 January 2013, the Cambodian Ministry of Health published a [press release](#) jointly with the Cambodia WHO country office announcing three new human cases of avian influenza A(H5N1). Two of the patients a 15-year old girl and a 35 year old man died. The third patient, an 8 months old baby, has recovered. The three patients come from three different provinces in Cambodia. All three had contact with poultry prior to their onset of illness.

Since the last update on 17 December there have been poultry outbreaks in Indonesia attributed to influenza virus A(H5N1) clade 2.3.2.1. This clade has not been previously detected in Indonesia, although it has been circulating for some years in poultry and has been isolated from a few human cases with H5N1 infection in other countries.

Web sources: [ECDC Rapid Risk Assessment](#) | [Avian influenza on ECDC website](#) | [WHO updates](#)

ECDC assessment

Hong Kong reported the world's first recorded major outbreak of bird flu among humans in 1997, when six people died. Most human infections are the result of direct contact with infected birds, and countries with large poultry populations in close contact with humans are considered to be most at risk of bird flu outbreaks. ECDC follows the worldwide A(H5N1) situation through epidemic intelligence activities in order to identify significant changes in the epidemiology of the virus. ECDC re-assesses the potential of a changing risk for A(H5N1) to humans on a regular basis. There are currently no indications that from a human health perspective there is any significant change in the epidemiology associated with any clade or strain of the A(H5N1) virus. This assessment is based on the absence of sustained human-to-human transmission, and on the observation that there is no apparent change in the size of clusters or reports of chains of infection. However, vigilance for avian influenza in domestic poultry and wild birds in Europe remains important.

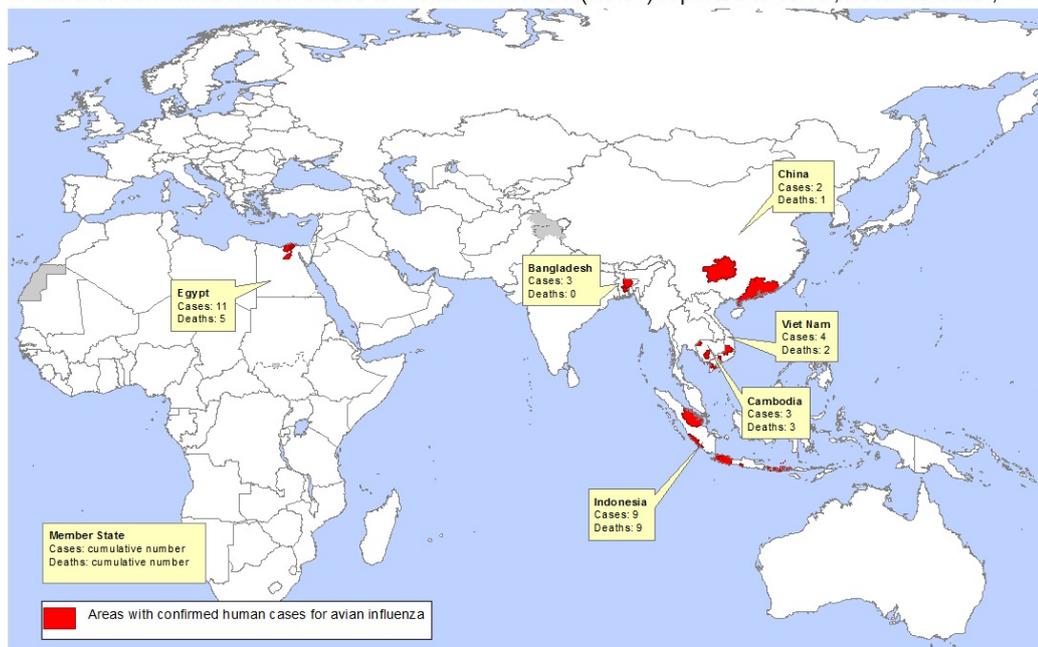
Actions

WHO is now reporting H5N1 cases on a monthly basis. ECDC will continue monthly reporting in the CDTR to coincide with WHO reporting.

Areas with human cases of A(H5N1)

WHO

Areas with confirmed human cases for avian influenza A(H5N1) reported to WHO, 2012- to-date*,



*All dates refer to onset of illness
Data as of 16 January 2013
Source: WHO/HIP

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