

## Influenza at the human-animal interface

Summary and assessment, 3 March to 28 May 2018

- **New infections¹:** Since the previous update, no new human infections with avian or swine influenza viruses were reported.
- Risk assessment: The overall public health risk from currently known influenza viruses at the human-animal interface has not changed, and the likelihood of sustained human-to-human transmission of these viruses remains low. Further human infections with viruses of animal origin are expected.
- IHR compliance: All human infections caused by a new influenza subtype are required to be reported under the International Health Regulations (IHR, 2005).<sup>2</sup> This includes any influenza A virus that has demonstrated the capacity to infect a human and its heamagglutinin gene (or protein) is not a mutated form of those, i.e. A(H1) or A(H3), circulating widely in the human population. Information from these notifications is critical to inform risk assessments for influenza at the human-animal interface.

# **Avian Influenza Viruses**

#### **Current situation:**

## Avian influenza A(H5) viruses

According to reports received by the World Organisation for Animal Health (OIE), various influenza A(H5) subtypes continue to be detected in birds in Africa, Europe and Asia. Influenza A(H5N6) viruses have recently been detected in parts of Europe and Asia, however these A(H5N6) viruses are different from the A(H5N6) influenza viruses which have infected humans in China.

# Avian influenza A(H7N9) viruses

According to reports received by the World Organisation for Animal Health (OIE), A(H7N9) avian influenza viruses continue to be detected by agricultural authorities in China. A nationwide domestic poultry vaccination plan is underway.<sup>3</sup>

Overall, the risk assessments have not changed.

### **Overall Risk Management Recommendations:**

- WHO does not advise special traveler screening at points of entry or restrictions with regard to the current situation of influenza viruses at the human-animal interface. For recommendations on safe trade in animals from countries affected by these influenza viruses, refer to OIE guidance.
- WHO advises that travelers to countries with known outbreaks of animal influenza should avoid farms, contact with animals in live animal markets, entering areas where animals may be slaughtered, or contact with any surfaces that appear to be contaminated with animal faeces.

<sup>&</sup>lt;sup>1</sup> For epidemiological and virological features of human infections with animal influenza viruses not reported in this assessment, see the yearly report on human cases of influenza at the human-animal interface published in the Weekly Epidemiological Record. Available at: <a href="www.who.int/wer/en/">www.who.int/wer/en/</a>

<sup>&</sup>lt;sup>3</sup> World Health Organization. Case definitions for the four diseases requiring notification in all circumstances under the International Health Regulations (2005). Available at: <a href="www.who.int/ihr/Case">www.who.int/ihr/Case</a> Definitions.pdf <sup>3</sup> H7N9 Situation Update, FAO. Available at:

Travelers should also wash their hands often with soap and water. Travelers should follow good food safety and good food hygiene practices.

- Due to the constantly evolving nature of influenza viruses, WHO continues to stress the importance of global surveillance to detect virological, epidemiological and clinical changes associated with circulating influenza viruses that may affect human (or animal) health, especially over the coming winter months. Continued vigilance is needed within affected and neighbouring areas to detect infections in animals and humans. Collaboration between the animal and human health sectors is essential. As the extent of virus circulation in animals is not clear, epidemiological and virological surveillance and the follow-up of suspected human cases should remain high.
- All human infections caused by a new subtype of influenza virus are notifiable under the International Health Regulations (IHR, 2005). State Parties to the IHR (2005) are required to immediately notify WHO of any laboratory-confirmed case of a recent human infection caused by an influenza A virus with the potential to cause a pandemic. Evidence of illness is not required for this report.
- It is critical that influenza viruses from animals and people are fully characterized in appropriate animal or human health influenza reference laboratories. Under WHO's Pandemic Influenza Preparedness (PIP) Framework, Member States are expected to share their influenza viruses with pandemic potential on a regular and timely basis with the Global Influenza Surveillance and Response System (GISRS), a WHO-coordinated network of public health laboratories. The viruses are used by the public health laboratories to assess the risk of pandemic influenza and to develop candidate vaccine viruses.

### Links:

WHO Human-Animal Interface web page

http://www.who.int/influenza/human\_animal\_interface/en/

Cumulative Number of Confirmed Human Cases of Avian Influenza A(H5N1) Reported to WHO <a href="http://www.who.int/influenza/human animal interface/H5N1">http://www.who.int/influenza/human animal interface/H5N1</a> cumulative table archives/en/

Avian Influenza A(H7N9) Information

http://who.int/influenza/human animal interface/influenza h7n9/en/index.html

WHO Avian Influenza Food Safety Issues

http://www.who.int/foodsafety/areas work/zoonose/avian/en/

World Organisation of Animal Health (OIE) web page: Web portal on Avian Influenza

http://www.oie.int/animal-health-in-the-world/web-portal-on-avian-influenza/

Food and Agriculture Organization of the UN (FAO) webpage: Avian Influenza

http://www.fao.org/avianflu/en/index.html

OFFLU

http://www.offlu.net/index.html

at: www.who.int/influenza/gisrs laboratory/manual diagnosis surveillance influenza/en/

World Health Organization. Case definitions for the four diseases requiring notification in all circumstances under the International Health Regulations (2005). Available at: <a href="www.who.int/ihr/Case\_Definitions.pdf">www.who.int/ihr/Case\_Definitions.pdf</a>
World Health Organization. Manual for the laboratory diagnosis and virological surveillance of influenza (2011). Available