

WEEKLY INTELLIGENCE REPORT

November 27th 2023 - December 3rd 2023

SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥ 3.0)

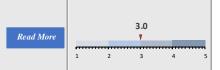
Highly Pathogenic Avian Influenza

- Over the last week, Canada has reported outbreaks of HPAI in commercial poultry in: British
 Columbia(2) and Alberta(1)
- Finland has reported HPAI H5N1 in additional fur farms, bringing the total number of affected farms to 65 (mink, foxes, and raccoon dogs); the serosurvey of 182 (non-mink) fur farms has yielded 32 positives
 - It is unclear if any of these animals showed active infection/clinical signs and there is no further information on the spread or source of virus introduction on the farms

Read More 3.3 1 2 3 4 5 Read More 1 2 3 4 5

Influenza A (H5N1)

The two recent human cases of a vian influenza H5N1 in Cambodia have been sequenced as clade 2.3.2.1c, showing close similarity to the viruses circulating in Cambodia and Southeast Asia since 2013-2014, and clustering most closely with the viruses from the two human cases reported in October 2023



NEW EVENTS: (events rated > 2)



Swine influenza A (H1N2) variant in the United Kingdom

Pathogen: virus; Transmission: direct contact, fomite, aerosol; Species affected in event: human

① On November 25, 2023, the UK reported its first human case of swine-origin influenza A(H1N2) variant. The case was identified as part of routine surveillance of respiratory illnesses. The source of infection for this case is under investigation and contact tracing is in process. There is no clear indication of direct contact with pigs or any ill individuals. To date, no other confirmed cases associated with this event have been reported. Sequencing has revealed the virus belongs to clade 1B.1.1, similar to viruses previously detected in pigs in the UK.

Avg. Rating	2.0 - 2.8
No. of Signal	4
No. of Ratings	4



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CONTINUED EVENTS: (events rated \geq 2.4)

Highly Pathogenic Avian Influenza in North America

No. of Signals: 09 No. of weeks in report: 93

Avg. Rating: 2.0 - 3.3

- Over the last week, Canada has reported outbreaks of HPAI in commercial poultry in: British Columbia (2) and Alberta (1)
- Over the last week, the <u>USA</u> has reported outbreaks of HPAI in commercial poultry in: Minnesota(4), California(3), Wisconsin(2), South Dakota (2), North Dakota(1), Iowa(1), Arkansas(1), and Ohio(1); in WOAH poultry in: North Dakota(1) and Colorado(1); in WOAH non-poultry in: Iowa(2), Washington(1), North Dakota(1), Nebraska(1), Colorado(1), South Dakota(1), Montana(1), and Idaho(1)

Influenza A (H5N1) in Cambodia

No. of Signals: 01 No. of weeks in report: 06

Avg. Rating: 3.0

• The two recent human cases of avian influenza H5N1 in <u>Cambodia</u> have been sequenced as clade 2.3.2.1c, showing close similarity to the viruses circulating in Cambodia and Southeast Asia since 2013 -2014, and clustering most closely with the viruses from the two human cases reported in October 2023

Highly Pathogenic Avian Influenza in Europe

No. of Signals: 29 No. of weeks in report: 154 Avg. Rating: 2.0 - 3.0

- Finland has reported HPAI H5N1 in additional fur farms, bringing the total number of affected farms to 65 (mink, foxes, and raccoon dogs); the serosurvey of 182 (non-mink) fur farms has yielded 32 positives, it is unclear if any of these animals showed active infection/clinical signs and there is no further information on the spread or source of virus introduction on the farms
- Germany, Hungary, UK, Belgium, and France have reported HPAI H5N1 in domestic birds
- Serbia, Denmark, Austria, Italy, Spain, Germany, Croatia, Finland, Hungary, and Sweden have reported HPAI H5N1 in wild birds
- Bulgaria has reported HPAI H5 in domestic birds
- A summary of the overall HPAI situation in Europe is available here

Influenza A (H3) in China

No. of Signals: 01 No. of weeks in report: 48 Avg. Rating: 2.5

• China has reported a case of severe paediatric influenza A (H3) infection in a 13-year-old boy admitted to Hong Kong Children's Hospital; the boy had not received seasonal influenza vaccination for this season and had no recent travel history, his home contacts are currently asymptomatic, and investigations are ongoing

Highly Pathogenic Avian Influenza in Asia

No. of Signals: 11 No. of weeks in report: 119 Avg. Rating: 2.0

- Israel has reported HPAI H5N1 in domestic turkeys in Jerusalem
- Japan has recently reported four outbreaks of HPAI in domestic poultry across the country
- Taiwan has reported HPAI H5N1 in domestic poultry
- <u>Cambodia</u> has reported HPAI H5N1 in domestic poultry in Kampot province (the same region where the recent human cases were reported)

Highly Pathogenic Avian Influenza in South America No. of Sig

- No. of Signals: 05 No. of weeks in report: 54 Avg. Rating: 2.0
- Argentina has reported 220 dead flamingos in Catamarca as a result of HPAI H5N1
- Costa Rica has reported HPAI H5 in wild birds (frigate)



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SCIE	ENTIFIC FINDINGS & REPORTS:	
<u>Influenza</u>		
♦	Vaccination of African penguins (Spheniscus demersus) against high-pathogenicity avian influenza Read More	
•	First report and genetic characterization of the highly pathogenic avian influenza A(H5N1) virus in Cabot's tern (<i>Thalasseus acuflavidus</i>), Brazil	
	Climate change impacts on bird migration and highly pathogenic avian influenza Read More	
♦	Effect of 2020–21 and 2021–22 Highly Pathogenic Avian Influenza H5 Epidemics on Wild Birds, the Netherlands	
	Responding to avian influenza A H5N1 detection on a hospital property in Maine — An interdisciplinary approach Read More	
Mpc	<u></u>	
	Clade I–Associated Mpox Cases Associated with Sexual Contact, the Democratic Republic of the Congo	
<u>Vectors and Vector-borne Disease</u>		
♦	Cache Valley virus: an emerging arbovirus of public and veterinary health importance Read More	
♦	De novo genome assembly of the invasive mosquito species Aedes japonicus and Aedes koreicus Read More	
<u>Oth</u>	<u>er</u>	
♦	Serological identification of MERS-CoV in camels of Wasit province, Iraq Read More	
	Range area and the fast–slow continuum of life history traits predict pathogen richness in wild mammals Read More	
♦	Identification and characterization of porcine Rotavirus A in Chilean swine population Read More	
	ECDC - Communicable disease threats report, 26 November – 2 December 2023, week 48 Read More	
	SHIC Domestic Disease Monitoring Report – December 2023 Read Mare	
	Centre for Health Protection – Avian Influenza Report – Volume 19, number 46 Read More	

Disclaimer

This intelligence report is intended to provide information to risk managers about emerging and zoonotic disease events that could pose a threat to Canada. It is based on information signals acquired and selected from twenty-one distinct disease surveillance sources via the Knowledge Integration using Web-based Intelligence (KIWI) tool hosted on the Canadian Network for Public Health Intelligence (CNPHI) informatics platform. The report is based on the activities of the CEZD Community of Practice and subject to change based on evolving user needs.