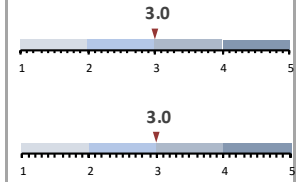


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

Influenza A (H5)

- ◆ The **UK** has detected influenza A (H5) virus in two asymptomatic poultry workers known to have recently worked on an infected poultry farm in England; these findings are a result of the introduction of an asymptomatic testing programme for people who have been in contact with infected birds
- ◆ **Brazil** is investigating a suspected case of influenza A in a 61 year old park employee in **Vitória, Espírito Santo** (the same area where the first cases of HPAI H5N1 were reported in wild birds); 32 other people who also work in the park are being monitored

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Highly Pathogenic Avian Influenza

- ◆ Journal Article: Seroconversion of a Swine Herd in a Free-Range Rural Multi-Species Farm against HPAI H5N1 2.3.4.4b Clade Virus
- ◆ ECDC Avian Influenza overview March – April 2023; between March 2 and April 28, 2023, HPAI H5Nx, clade 2.3.4.4b, outbreaks were reported in 106 domestic and 610 wild birds across 24 countries in **Europe**
- ◆ **Brazil** has reported its first cases of HPAI H5N1 in three wild birds on the coast of **Espírito Santo**
- ◆ The **USDA APHIS** has approved the emergency use of HPAI vaccine in an attempt to protect the critically endangered California condors after several have died from HPAI
- ◆ **Chile** continues to report findings of dead marine mammals; a total of 7060 marine mammals have been reported as of May 12, 2023
- ◆ **Peru** has also reported hundreds of birds and sea lions found dead on the beaches of **Camaná** and **Islay**

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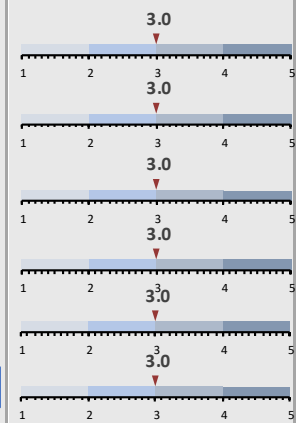
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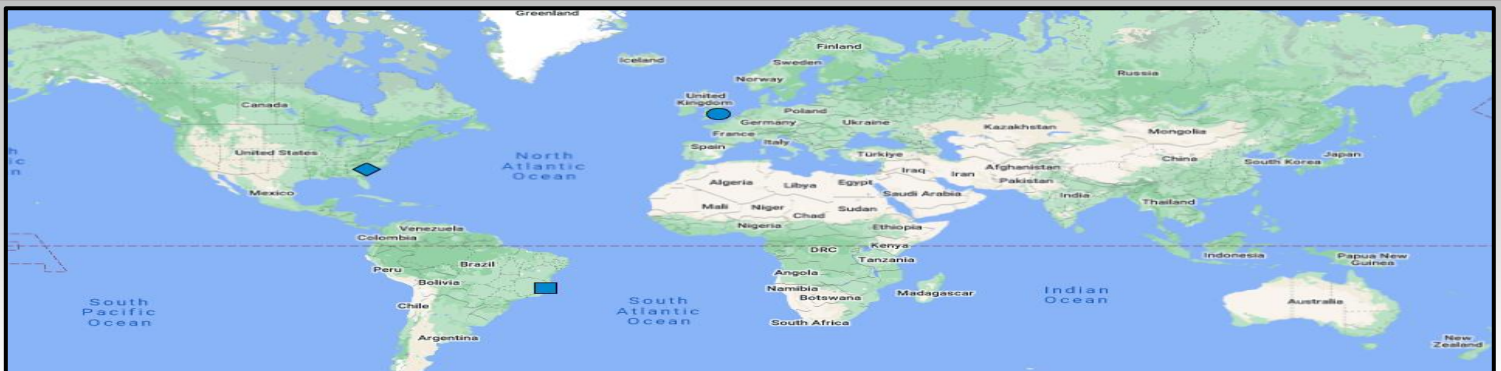
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NEW EVENTS: (events rated > 2)



Influenza A in Brazil

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

① Brazil is investigating a suspected case of influenza A in a 61-year-old man in Vitória, Espírito Santo. The man is an employee of a park where a bird was found that tested positive for HPAI. He has mild flu-like symptoms, is in isolation, and is monitored by municipal health teams. Samples from 32 other people who also work in the park are being analyzed by the Central Public Health Laboratory in Espírito Santo. [Read More](#)

Avg. Rating	2.7 - 3.0
No. of Signal	2
No. of Ratings	3 - 4

Atypical Bovine Spongiform Encephalopathy in South Carolina, USA

Pathogen: prion; **Transmission:** atypical; **Species affected in event:** cattle

① The USDA has reported an atypical case of BSE in a ~five-year-old or older beef cow at a slaughter plant in South Carolina. The animal never entered slaughter channels. This is the nation's 7th detection of BSE. Of the six previous cases, the first, in 2003, was a case of classical BSE in a cow imported from Canada; the rest have been atypical (H- or L-type) BSE. [Read More](#)

Avg. Rating	2.5
No. of Signal	1
No. of Ratings	2

Lungworm in dogs in England

Pathogen: parasite; **Transmission:** ingestion; **Species affected in event:** canine

① In England, lungworm, *Angiostrongylus vasorum*, in dogs appears to be becoming more common. There have been 593 reported cases of lungworm across the south east and at least 10 in Oxfordshire. The overall prevalence of the disease in the fox population in the UK and Ireland is now at 18.3%. The larvae live in snails and slugs, as well as the faeces from infected dogs or foxes. [Read More](#)

Avg. Rating	2.3
No. of Signal	1
No. of Ratings	4

CONTINUED EVENTS: (events rated ≥ 2.4)

<u>Influenza A (H5) in the UK</u>	<u>No. of Signals: 02</u>	<u>No. of weeks in report: 02</u>	<u>Avg. Rating: 3.0</u>
<ul style="list-style-type: none"> The UK has detected influenza A (H5) virus in two asymptomatic poultry workers known to have recently worked on an infected poultry farm in England; these findings are a result of the introduction of an asymptomatic testing programme for people who have been in contact with infected birds 			
<u>Highly Pathogenic Avian Influenza in North America</u>	<u>No. of Signals: 04</u>	<u>No. of weeks in report: 70</u>	<u>Avg. Rating: 2.0 – 3.0</u>
<ul style="list-style-type: none"> Canada has not reported any outbreaks of HPAI H5N1 over the past week Since May 11, 2023, the USDA has reported outbreaks of HPAI H5N1 in WOA Non-poultry in: Missouri, North Carolina, and Minnesota The USDA APHIS has approved the emergency use of HPAI vaccine in an attempt to protect the critically endangered California condors after several have died from HPAI 			
<u>Highly Pathogenic Avian Influenza in South America</u>	<u>No. of Signals: 07</u>	<u>No. of weeks in report: 26</u>	<u>Avg. Rating: 2.0 – 3.0</u>
<ul style="list-style-type: none"> Brazil has reported its first cases of HPAI H5N1 in three wild birds on the coast of Espírito Santo Chile continues to report findings of dead marine mammals; a total of 7060 marine mammals have been reported as of May 12, 2023 Peru has also reported hundreds of birds and sea lions found dead on the beaches of Camaná and Islay Argentina has reported HPAI H5 in domestic poultry Bolivia has not reported any outbreaks of HPAI for more than a month; a total of 591,000 hens were lost in Bolivia, representing 6% of the herd nationwide 			
<u>Foot and Mouth Disease in South Korea</u>	<u>No. of Signals: 04</u>	<u>No. of weeks in report: 02</u>	<u>Avg. Rating: 2.0 – 2.5</u>
<ul style="list-style-type: none"> South Korea has reported a total of 11 outbreaks of FMD, with nine of them in Cheongju and two from Jeungpyeong County 			
<u>Highly Pathogenic Avian Influenza in Europe</u>	<u>No. of Signals: 11</u>	<u>No. of weeks in report: 126</u>	<u>Avg. Rating: 2.0 – 2.3</u>
<ul style="list-style-type: none"> Russia has reported an outbreak of HPAI in domestic poultry Iceland, Hungary, Poland, the Czech Republic, Lithuania, Latvia, Switzerland, Estonia, and Russia have reported HPAI H5N1 in wild birds A summary of the overall HPAI situation in Europe is available here 			
<u>Highly Pathogenic Avian Influenza in Asia</u>	<u>No. of Signals: 04</u>	<u>No. of weeks in report: 102</u>	<u>Avg. Rating: 2.0</u>
<ul style="list-style-type: none"> Japan has reported HPAI H5 in wild birds Vietnam has reported HPAI in domestic poultry 			

SCIENTIFIC FINDINGS & REPORTS:

Coronavirus

- ◆ Pathogenicity, tissue tropism and potential vertical transmission of SARSr-CoV-2 in Malayan pangolins [Read More](#)

Chronic Wasting Disease

- ◆ Ticks harbor and excrete chronic wasting disease prions [Read More](#)

Influenza

- ◆ Seroconversion of a Swine Herd in a Free-Range Rural Multi-Species Farm against HPAI H5N1 2.3.4.4b Clade Virus [Read More](#)
- ◆ ECDC - Avian influenza overview March – April 2023 [Read More](#)
- ◆ PAHO - Epidemiological Update: Outbreaks of avian influenza caused by influenza A(H5N1) in the Region of the Americas [Read More](#)
- ◆ Novel Avian Influenza Virus (H5N1) Clade 2.3.4.4b Reassortants in Migratory Birds, China [Read More](#)
- ◆ Novel Highly Pathogenic Avian Influenza A(H5N1) Clade 2.3.4.4b Virus in Wild Birds, South Korea [Read More](#)
- ◆ Cell-intrinsic genomic reassortment of pandemic H1N1 2009 and Eurasian avian-like swine influenza viruses results in potentially zoonotic variants [Read More](#)

Vectors and Vector-borne Diseases

- ◆ Analysis of the diversity of tick-borne viruses at the border areas in Liaoning Province, China [Read More](#)
- ◆ Novel Orthonairovirus Isolated from Ticks near China–North Korea Border [Read More](#)

Other

- ◆ *Streptococcus suis* contributes to inguinal lymph node lesions in piglets after highly pathogenic porcine reproductive and respiratory syndrome virus infection [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.