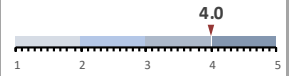


SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

Influenza A (H5N1) Virus

- Over the last week, **Cambodia** reported two cases of influenza A H5N1, the initial case was an 11-year-old girl from **Prey Veng** province and the second case was her father; virus sequencing shows the H5N1 virus belongs to clade 2.3.2.1c, similar to the 2.3.2.1c clade viruses circulating in poultry in southeast **Asia** since 2014

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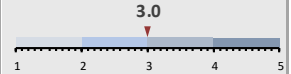
Highly Pathogenic Avian Influenza

- According to the most recent data from the Canadian Wildlife Service, last year's HPAI outbreak was devastating for Northern Gannets in the **Magdalen Islands**; the Northern Gannet colony of **Bird Rock** has declined by 58%
- Peru** has reported more sea lion deaths due to HPAI; there have been at least 716 sea lions deaths in seven protected natural areas of the coast since mid-January 2023 and ~63 000 birds have been killed since November 2022

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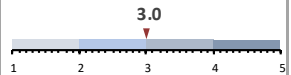
[Read More](#)



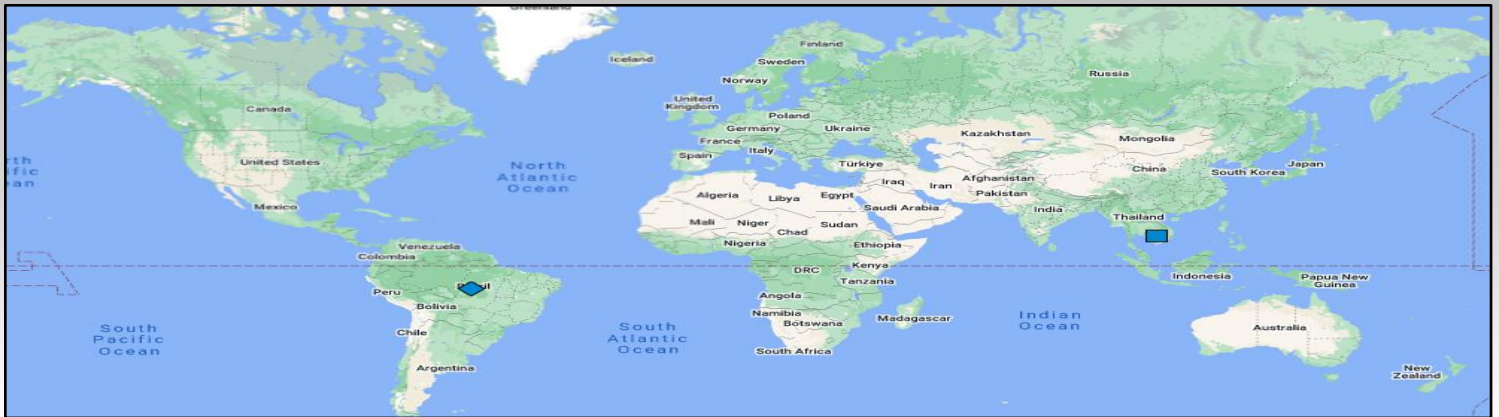
White Nose Syndrome Fungus (opinion)

- A **British Columbia** biologist/bat specialist thinks the fungus that causes WNS is probably already in **B.C.** but has not been detected yet; there was an unconfirmed report (~two years ago) of a bat that was probably infected with WNS on **Orcas Island** in the **U.S.**, which is ~10 kilometres from **Victoria**

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NEW EVENTS: (events rated >2)



Influenza A H5N1 virus in Cambodia

Pathogen: Virus; **Transmission:** Direct contact, aerosol, fomite; **Species affected in event:** Human

① On 23 February 2023, Cambodia notified the WHO of a confirmed case of human infection with avian influenza A (H5N1) virus. The case was an 11-year-old girl from Prey Veng province, in the south of Cambodia. The patient died on 22 February 2023. A total of twelve close contacts (eight asymptomatic close contacts and four symptomatic who met the suspected case definition) of the index case were identified and samples were collected and tested. Laboratory investigations confirmed a second case on 23 February 2023, the father of the index child. The father, who is asymptomatic, is in isolation at the referral hospital. The eleven other samples tested negative for A (H5N1) and SARS-CoV-2. Virus sequencing shows the H5N1 virus belongs to clade 2.3.2.1c, and is similar to the 2.3.2.1c clade viruses circulating in poultry in southeast Asia since 2014.

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| | |
|----------------|-----------|
| Avg. Rating | 3.0 - 4.0 |
| No. of Signal | 10 |
| No. of Ratings | 3 - 4 |

Bovine Spongiform Encephalopathy in Brazil

Pathogen: Prion; **Transmission:** Direct contact, Atypical?; **Species affected in event:** Bovine

① Brazil has confirmed a case BSE in a 9-year-old male animal on a small property in the municipality of Marabá. The animal, reared on pasture without feed, was slaughtered and its carcass incinerated at the site. Samples have been sent to the CFIA's National and International Reference Laboratory for BSE in Alberta, Canada, which can confirm whether the case is atypical.

[Read More](#)

| | |
|----------------|-----------|
| Avg. Rating | 2.0 - 2.5 |
| No. of Signal | 3 |
| No. of Ratings | 3 |

CONTINUED EVENTS: (events rated ≥ 2.4)

Highly Pathogenic Avian Influenza in North America **No. of Signals: 04** **No. of weeks in report: 58** **Avg. Rating: 2.0 – 3.0**

- Over the last week, [Canada](#) has not reported any new outbreaks of HPAI
- According to the most recent data from the Canadian Wildlife Service, last year's HPAI outbreak was devastating for Northern Gannets in the [Magdalen Islands](#); the Northern Gannet colony of Bird Rock has declined by 58%
- Over the last week, the [USDA](#) has reported outbreaks of HPAI H5N1 in commercial poultry in: Illinois and Pennsylvania; in WOAHP poultry in: Nebraska and Pennsylvania; in WOAHP non-poultry in: Colorado; and in Live Bird Sales/Slaughter in: Virginia

Highly Pathogenic Avian Influenza in South America **No. of Signals: 15** **No. of weeks in report: 15** **Avg. Rating: 2.0 – 3.0**

- [Peru](#) has reported more sea lion deaths due to HPAI; there have been at least 716 sea lions deaths in seven protected natural areas of the coast since mid-January 2023 and ~63 000 birds have been killed since November 2022
- [Argentina](#) has reported multiple new HPAI H5 outbreaks in backyard birds, raising the national total to 19 across eight provinces: Córdoba, Buenos Aires, Santa Fe, Jujuy, Neuquén, Río Negro, San Luis and Salta
- [Colombia](#) and [Ecuador](#) have reported outbreaks of HPAI H5N1 in domestic poultry
- [Guatemala](#) has reported cases of HPAI H5N1 in brown pelicans in the eastern part of the country

Lassa Fever in Nigeria **No. of Signals: 01** **No. of weeks in report: 02** **Avg. Rating: 2.5**

- [Nigeria](#) has confirmed a total of 531 Lassa fever cases during the first six weeks of 2023; this is a 48% increase compared to the same period in 2022 (358)

Highly Pathogenic Avian Influenza in Europe **No. of Signals: 01** **No. of weeks in report: 114** **Avg. Rating: 2.0**

- The [Netherlands](#) have released an alert following a recent uptick in HPAI H5N1 infections in black-headed gulls in France, Belgium, Germany and the Netherlands
- A summary of the overall HPAI situation in Europe is available [here](#)

Highly Pathogenic Avian Influenza in Asia **No. of Signals: 03** **No. of weeks in report: 91** **Avg. Rating: 2.0**

- [India](#) has reported HPAI H5N1 in a government poultry farm in Bokaro, Jharkhand

SCIENTIFIC FINDINGS & REPORTS:

African Swine Fever

- ◆ Composting of Wild Boar Carcasses in Lithuania Leads to Inactivation of African Swine Fever Virus in Wintertime [Read More](#)
- ◆ Emergence of a novel intergenetic region (IGR) IV variant of African swine fever virus genotype II in domestic pigs in Vietnam [Read More](#)

Coronavirus

- ◆ A bat MERS-like coronavirus circulates in pangolins and utilizes human DPP4 and host proteases for cell entry [Read More](#)
- ◆ Extended Viral Shedding of MERS-CoV Clade B Virus in Llamas Compared with African Clade C Strain [Read More](#)

Influenza

- ◆ Influenza A(H5N1) detection in two asymptomatic poultry farm workers in Spain, September to October 2022: suspected environmental contamination [Read More](#)
- ◆ Emerging Highly Pathogenic Avian Influenza (H5N8) Virus in *Podiceps nigricollis* in Northwest China in 2021 [Read More](#)
- ◆ Pre-print: Detection and Phylogenetic Analysis of Highly Pathogenic A/H5N1 Avian Influenza Clade 2.3.4.4b Virus in Chile, 2022 [Read More](#)
- ◆ Pre-print: Clade 2.3.4.4b H5N1 high pathogenicity avian influenza virus (HPAIV) from the 2021/22 epizootic is highly duck adapted and poorly adapted to chickens [Read More](#)
- ◆ CDC summary/review of lab confirmed LPAI and HPAI infections [Read More](#)

Other

- ◆ Pre-print: A generic risk assessment model for animal disease entry through wildlife: The example of highly pathogenic avian influenza and African swine fever in The Netherlands [Read More](#)
- ◆ WHO Prevention Of Zoonotic Spillover - From Relying On Response To Reducing The Risk At Source [Read More](#)
- ◆ West Nile Virus-Induced Drop in Egg Production in Commercial Pekin Duck Breeders [Read More](#)
- ◆ First detected geographical cluster of BoDV-1 encephalitis from same small village in two children: therapeutic considerations and epidemiological implications [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.