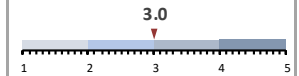


## SUMMARY: RELEVANT SIGNALS (includes all signals rated ≥3.0)

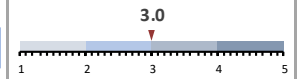
### Highly Pathogenic Avian Influenza

- Over the last week, **Canada** has reported outbreaks of HPAI H5N1 in commercial poultry in **Quebec(3)**
- In **Ontario**, multiple dead geese in Caledon have tested positive for HPAI

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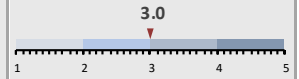
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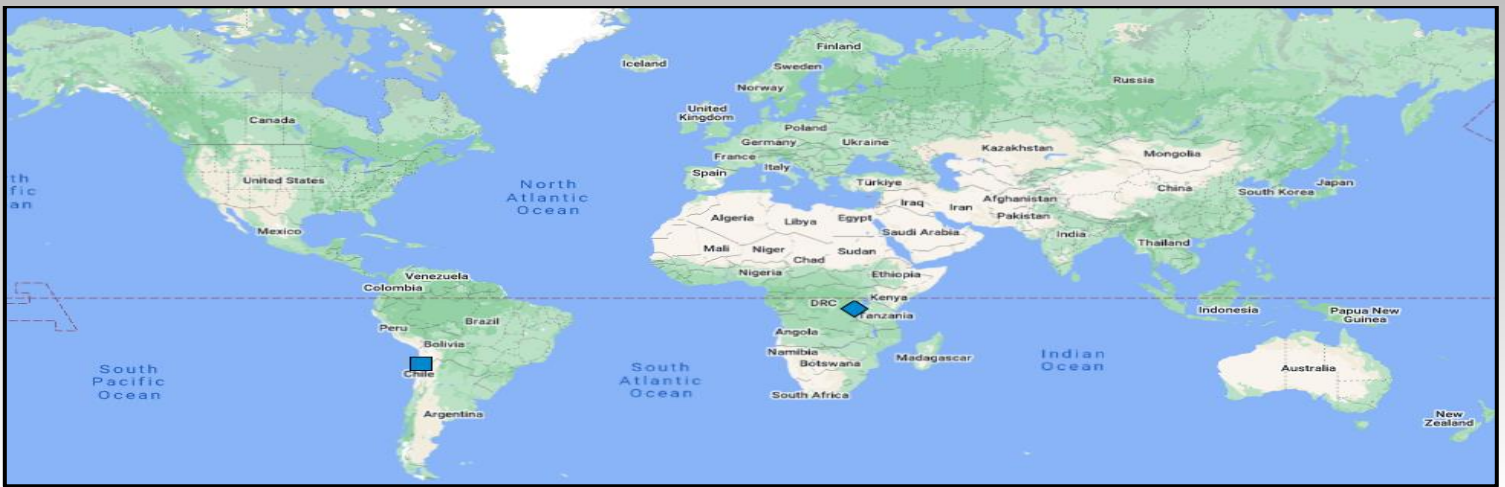
### Influenza A H5N1

- Chile** has reported its first human case of influenza A H5N1; the case is a 53-year-old man from **Tocopilla** who has no comorbidities and experienced the onset of symptoms (cough, sore throat, and voice change) on March 13, 2023

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## NEW EVENTS: (events rated > 2)



### Influenza A H5N1 in Chile

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

① Chile has reported its first human case of influenza A H5N1. The case is a 53-year-old man from Tocopilla, with no comorbidities, who experienced the onset of symptoms (cough, sore throat, and voice change) on March 13, 2023. He is currently hospitalized but in stable condition. The source of infection is part of an ongoing investigation. There is evidence of wild birds testing positive for HPAI in the Tocopilla commune of the Antofagasta Region between December 2022 and February 2023. A respiratory specimen from the Chile case is being sent to CDC for confirmation and additional testing.

[Read More](#)

Avg. Rating	3.0
No. of Signal	5
No. of Ratings	2 - 6

### Undiagnosed disease in Burundi

**Pathogen:** unknown; **Transmission:** unknown; **Species affected in event:** human

① A currently undiagnosed disease has led to 3 deaths in 3 days in the Gitobe commune in the Kirundo province and in the Buthinda commune in the Muyinga province (north-east Burundi). Symptoms developed by the patients are similar to those seen with viral hemorrhagic fevers. In the case of Kirundo, the governor as well as the provincial doctor are awaiting results of laboratory tests sent to the National Institute of Public Health. The Ministry of Health has already confirmed that results from the tests on the case from Muyinga have ruled out both Marburg and Ebola viruses.

[Read More](#)

Avg. Rating	2.0 - 2.2
No. of Signal	2
No. of Ratings	5

## CONTINUED EVENTS: (events rated ≥ 2.4)

<b>Highly Pathogenic Avian Influenza in North America</b>	<b>No. of Signals: 07</b>	<b>No. of weeks in report: 63</b>	<b>Avg. Rating: 2.0 – 3.0</b>
<ul style="list-style-type: none"> <li>Over the last week, <a href="#">Canada</a> has reported outbreaks of HPAI H5N1 in commercial poultry in Quebec(3)</li> <li>In <a href="#">Ontario</a>, multiple dead geese in Caledon have tested positive for HPAI</li> <li>Over the last week, the <a href="#">USDA</a> has reported outbreaks of HPAI H5N1 in WOAHP poultry in: Colorado; and in WOAHP non-poultry in: Oregon</li> <li><a href="#">California</a> has reported HPAI H5N1 in two mountain lions in Mono County in December 2022 and January 2023</li> <li>The <a href="#">USDA</a> has also updated their list of H5N1 detections in mammalian wildlife with 154 mammals being identified in the US to date</li> <li>In <a href="#">Mexico</a>, new outbreaks of HPAI have been reported on farms in the municipalities of Rincón de Romos, Asientos and El Llano; 30 people are being monitored due to contact with infected birds</li> </ul>			
<b>Highly Pathogenic Avian Influenza in South America</b>	<b>No. of Signals: 05</b>	<b>No. of weeks in report: 20</b>	<b>Avg. Rating: 2.0 – 2.7</b>
<ul style="list-style-type: none"> <li><a href="#">Chile</a> has issued an update on the stranded/dead marine animals due to HPAI; in total, 1,535 specimens of sea lions, 730 Humboldt Penguins and 8 chungungos have been stranded dead on the coasts of Chile</li> <li>Chile has also reported outbreaks of HPAI in domestic poultry in <a href="#">Biobio</a> and <a href="#">Maule</a> and in black necked swans at a nature sanctuary in <a href="#">Los Rios</a></li> </ul>			
<b>Marburg virus in Equatorial Guinea</b>	<b>No. of Signals: 03</b>	<b>No. of weeks in report: 03</b>	<b>Avg. Rating: 2.0 – 2.5</b>
<ul style="list-style-type: none"> <li>As of April 2, <a href="#">Equatorial Guinea</a> has confirmed 14 cases of Marburg virus and 10 deaths since the beginning of the outbreak; a total of 604 contacts are being monitored compared to 825 on March 30</li> </ul>			
<b>Highly Pathogenic Avian Influenza in Europe</b>	<b>No. of Signals: 10</b>	<b>No. of weeks in report: 119</b>	<b>Avg. Rating: 2.0</b>
<ul style="list-style-type: none"> <li><a href="#">France</a>, the <a href="#">Czech Republic</a>, <a href="#">Switzerland</a>, and <a href="#">Hungary</a> have reported HPAI H5N1 in domestic poultry</li> <li><a href="#">Ireland</a>, <a href="#">Scotland</a>, <a href="#">Italy</a>, <a href="#">Poland</a>, <a href="#">Germany</a> and <a href="#">Russia</a> have reported HPAI H5N1 in wild birds</li> <li>A summary of the overall HPAI situation in Europe is available <a href="#">here</a></li> </ul>			
<b>Highly Pathogenic Avian Influenza in Asia</b>	<b>No. of Signals: 01</b>	<b>No. of weeks in report: 96</b>	<b>Avg. Rating: 2.0</b>
<ul style="list-style-type: none"> <li><a href="#">Taiwan</a> has reported HPAI H5N1 in domestic poultry in Dacheng Township</li> </ul>			
<b>Highly Pathogenic Avian Influenza in Africa</b>	<b>No. of Signals: 01</b>	<b>No. of weeks in report: 42</b>	<b>Avg. Rating: 2.0</b>
<ul style="list-style-type: none"> <li><a href="#">Senegal</a> has now reported HPAI H5N1 in domestic poultry on a farm in the village of Potou near the town of Louga, not far from the Langue de Barbarie National Park where HPAI H5N1 was reported in wild birds</li> </ul>			

## SCIENTIFIC FINDINGS & REPORTS:

### Coronavirus

- ◆ Pre-print: Surveillance of 16 UK native bat species through conservationist networks uncovers coronaviruses with zoonotic potential [Read More](#)

### Influenza

- ◆ Mink infection with influenza A viruses: an ignored intermediate host? [Read More](#)
- ◆ Investigation into the risk to human health of avian influenza (influenza A H5N1) in England: technical briefing 3 [Read More](#)
- ◆ The molecular basis of differential host responses to avian influenza viruses in avian species with differing susceptibility [Read More](#)
- ◆ H9N2 avian influenza virus dispersal along Bangladeshi poultry trading networks [Read More](#)

### Other

- ◆ Paratracheal abscess by plant fungus *Chondrostereum purpureum*- first case report of human infection [Read More](#)
- ◆ The genomic epidemiology of *Escherichia albertii* infecting humans and birds in Great Britain [Read More](#)
- ◆ Fatal Human Rabies Infection with Suspected Host-mediated Failure of Post-Exposure Prophylaxis Following a Recognized Zoonotic Exposure—Minnesota, 2021 [Read More](#)
- ◆ One Health Surveillance Highlights Circulation of Viruses with Zoonotic Potential in Bats, Pigs, and Humans in Viet Nam [Read More](#)
- ◆ SHIC – Domestic Disease Monitoring Report April 2023 [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.