

#### Masking Consensus Statement for Acute Care and Outpatient Clinics 2024-2025 Respiratory Season

Posted: 10/22/2024

Coordinated by the Northwest Healthcare Response Network (NWHRN)

#### Summary

This body of work was developed by the NWHRN Acute Infectious Disease Masking Workgroup. This Summary section is a brief overview. For more in-depth discussion see below.

"Universal masking" as defined in this document pertains to staff, patient, and visitor masking in "patient care areas." Because of the wide-ranging variability within healthcare institutions "patient care areas" will be defined by each institution as was agreed upon in the initial consensus statement.

Masking reduces the risk of respiratory infections including COVID-19 and benefits the user and the people around them. The level of protection increases with the level of mask used. For example, an N95 respirator provides a higher level of protection against COVID-19 compared to a surgical mask alone.

Based on review of the recent COVID-19, influenza and respiratory syncytial virus (RSV) ED discharge diagnosis surveillance data, the transmission alert thresholds for the 2024-2025 respiratory season have been updated, reviewed and agreed upon for Snohomish, King and Pierce counties. Participating healthcare organizations (see signatory list below) have agreed to implement healthcare worker masking policies when the following occurs:

 At least one pathogen (RSV, influenza, or COVID-19) reaches or exceeds the transmission alert threshold for emergency department visits

Facilities should also strongly consider masking for visitors and healthcare workers in non-patient care areas in healthcare settings during periods of higher respiratory viral transmission activity.

Participating facilities agree that universal masking will remain in effect until the ED visits for all three pathogens are below their respective transmission alert thresholds for at least 2 weeks.



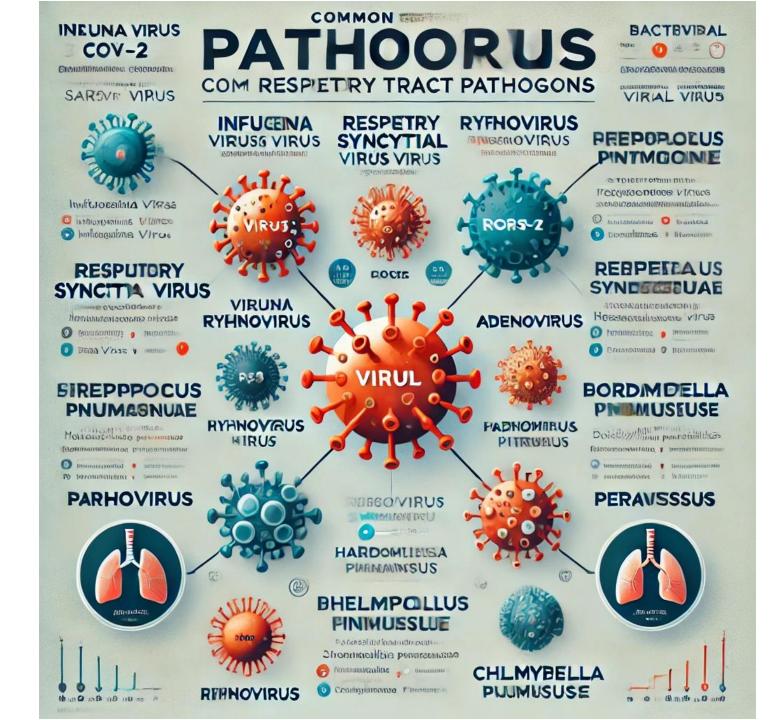
#### Emergency Department Transmission Alert Thresholds

COVID-19 Below transmission alert threshold

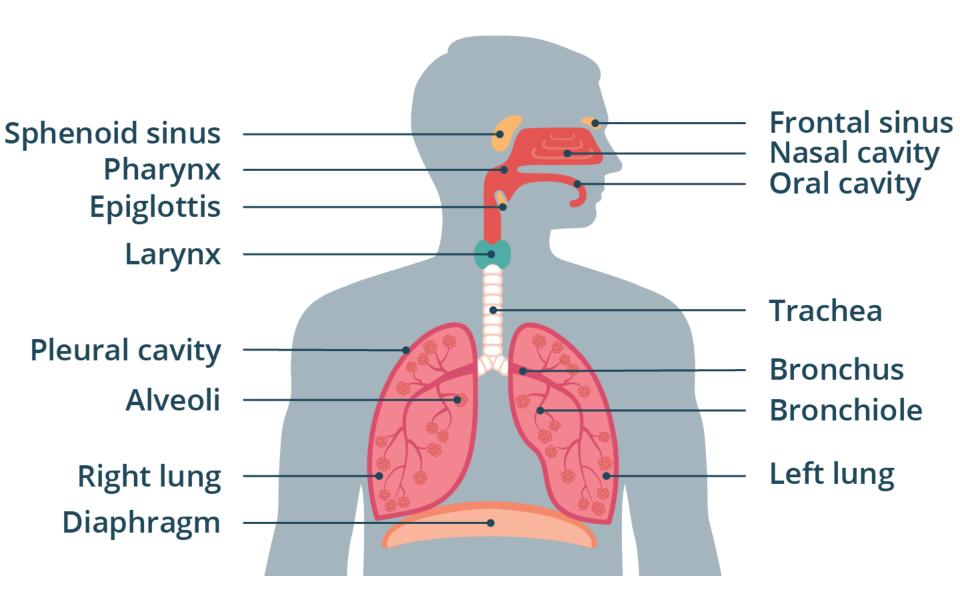
Influenza Above transmission alert threshold

RSV Above transmission alert threshold

Data as of 1/25/2025 Updated on 1/29/2025



**ChatGPT** 



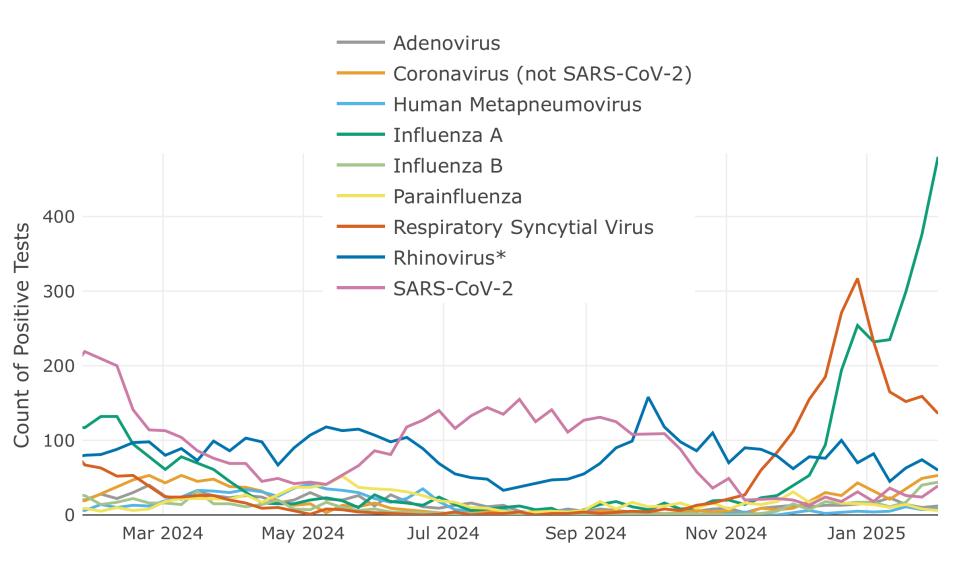
Types of Respiratory Tract Infections

Upper respiratory tract infections (URTIs):
Common cold, sinusitis, pharyngitis

Lower respiratory tract infections (LRTIs): Pneumonia, bronchitis, COVID-19

Current Epidemiologic al Overview Recent trends in RTIs in the U.S.

Data from CDC on flu, COVID-19, RSV, and other respiratory infections



## COVID-19 Trends

Current infection rates and hospitalization data

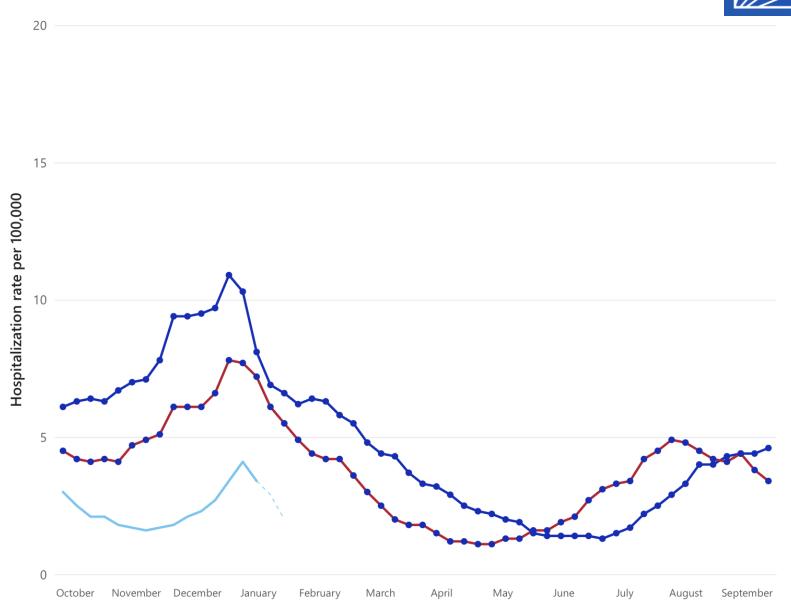
Variants of concern

Vaccination and booster updates

#### Weekly Rates of COVID-19 Associated Hospitalizations by Season

CDC

**─** 2022-23 <del>×</del> 2023-24 ─ 2024-25

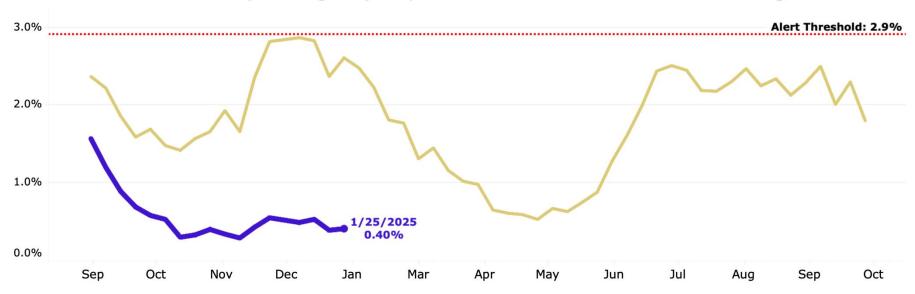


## Emergency Department Transmission Alert Thresholds covid-19 Below transmission alert threshold Above transmission alert threshold

Above transmission alert threshold

RSV

#### Percent of Weekly Emergency Department Visits with a COVID-19 Diagnosis

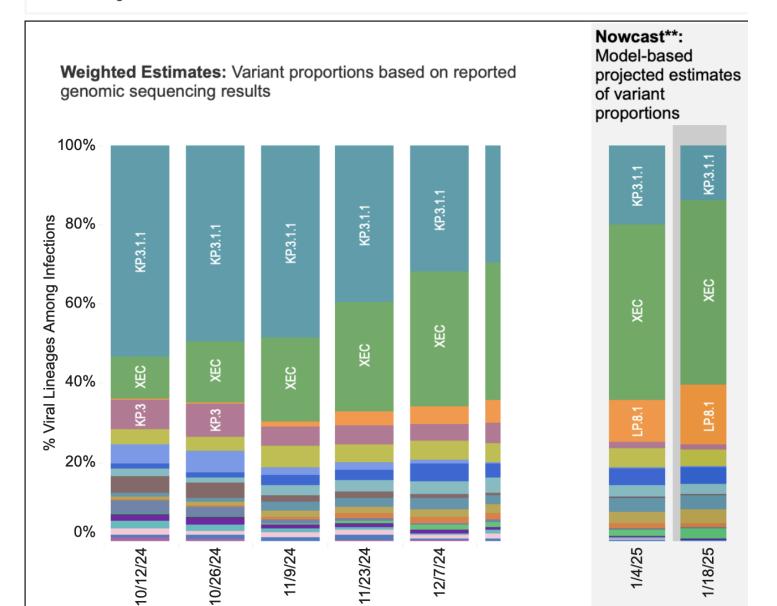


Public Health-Seattle & King County Respiratory Virus Tracking Dashboard

## Weighted and Nowcast Estimates in United States for 2-Week Periods in 9/29/2024 – 1/18/2025



Hover over (or tap in mobile) any lineage of interest to see the amount of uncertainty in that lineage's estimate.



### **Current COVID-19 Treatments**

**Antiviral Medications:** Nirmatrelvir-Ritonavir (Paxlovid), Convalescent Plasma, Remdesivir, Molnupiravir

**Monoclonal Antibodies:** Limited use due to variant resistance (except PEP?)

**Supportive Care:** Oxygen therapy, mechanical ventilation for severe cases

Corticosteroids: Dexamethasone for severe inflammation

**Immunomodulators:** Tocilizumab/Baricitinib for severe cytokine storms

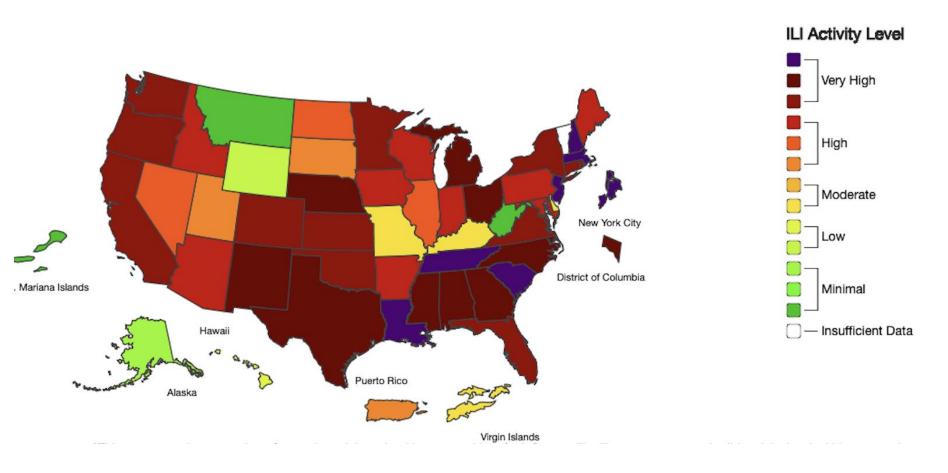
Influenza Trends Seasonal flu trends and impact

Most affected demographics

Effectiveness of flu vaccines



#### 2024-25 Influenza Season Week 4 ending Jan 25, 2025





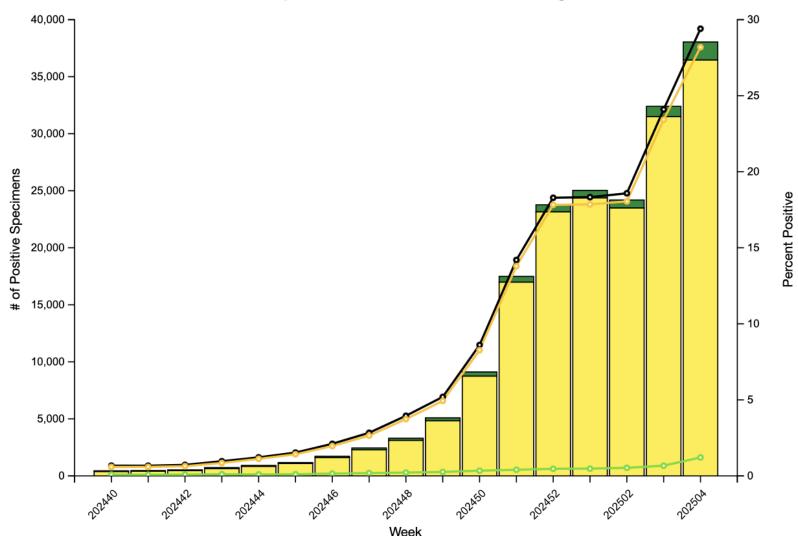
Season:

2024-25

Surveillance Area:

National

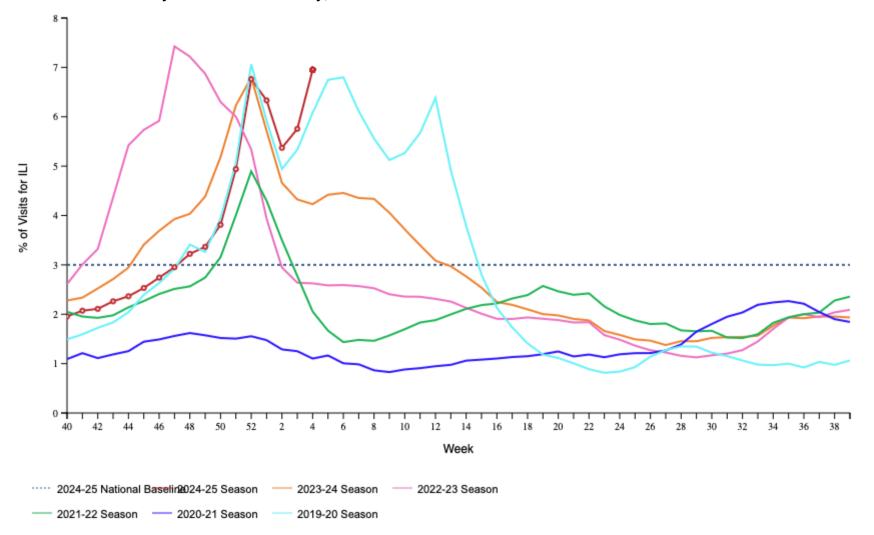
Influenza Positive Tests Reported to CDC by Clinical Laboratories, National Summary, 2024-25 Season, week ending Jan 25, 2025







Percentage of Outpatient Visits for Respiratory Illness Reported by The U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), Weekly National Summary, 2024-25 Season and Selected Previous Seasons



# COVID-19 Below transmission alert threshold Influenza Above transmission alert threshold RSV Above transmission alert threshold





Public Health-Seattle & King County Respiratory Virus Tracking Dashboard

# Influenza Treatment Options

#### **Antiviral**

**Medications:** Oseltamivir (Tamiflu) PO, Zanamivir inhaled, Baloxavir PO, Paramivir IV

**Supportive Care:** Hydration, rest, fever management

**Prevention:** Annual flu vaccination, hand hygiene, avoiding close contact with sick individuals

### Influenza Vaccination

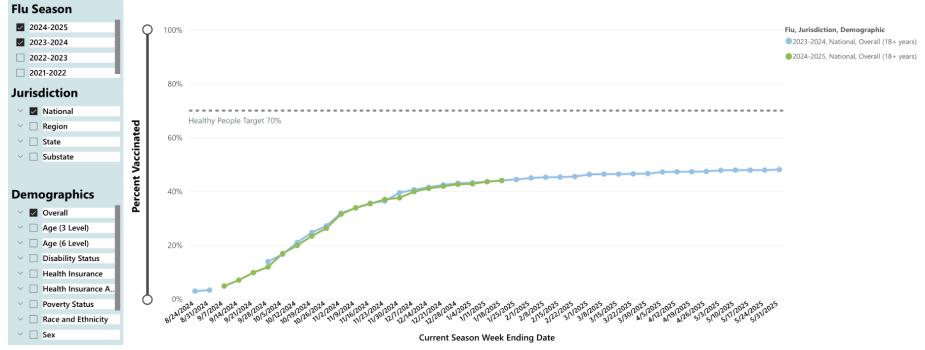
Fig. 4A: Adult Coverage Line Graph Fig. 4B: Adult Coverage and Vaccination Intent

Fig. 4C: Adult Coverage Comparison Map

Fig. 4D: Adult Comparison Tables

Figure 4A. Influenza Vaccination Coverage, Overall by Selected Demographics, 2024-25 and Jurisdiction, Among Adults 18 Years and Older \*,†,‡,§,±

**Data Source: National Immunization Survey-Adult COVID Module** 



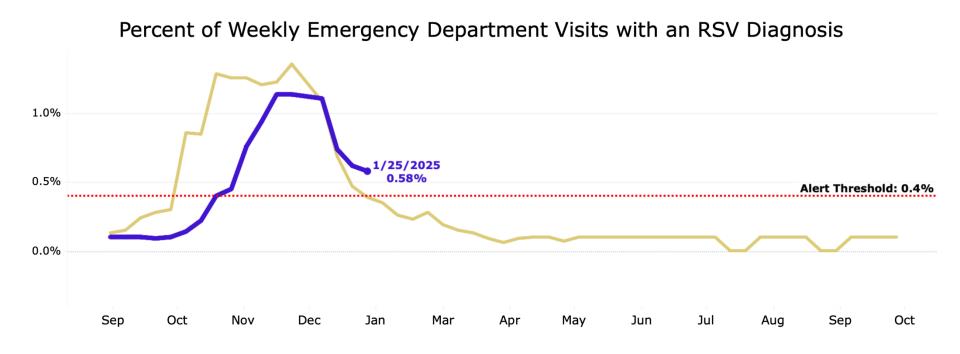
## RSV (Respiratory Syncytial Virus)

## Recent surge in RSV cases

Impact on children and older adults

Prevention strategies

Emergency Department Transmission Alert Thresholds			
COVID-19	Below transmission alert threshold		
Influenza	Above transmission alert threshold		
RSV	Above transmission alert threshold		



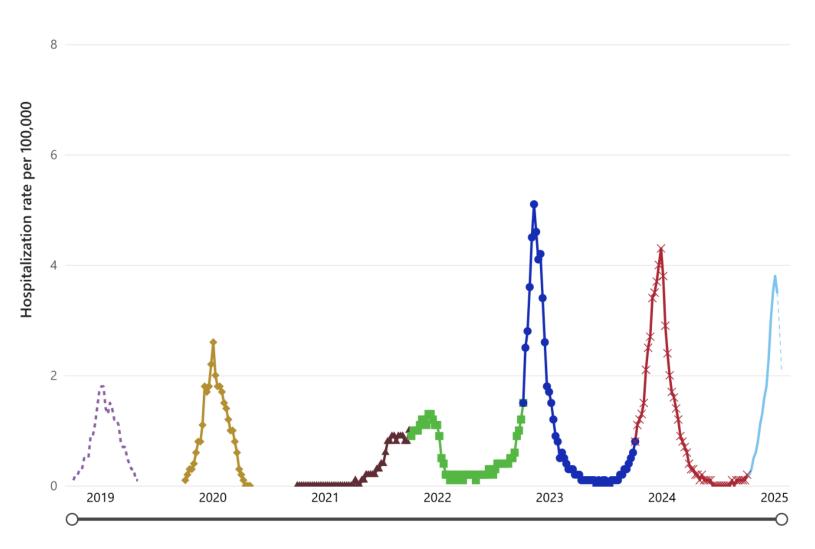
Public Health-Seattle & King County Respiratory Virus Tracking Dashboard

#### Weekly Rates of RSV Associated Hospitalizations by Season



10





**Surveillance Weeks** 

**Supportive Care:** Oxygen therapy, hydration, fever management

## RSV Treatment Options

#### **Antiviral**

**Medications:** Ribavirin (limited use in severe cases), Palavizumab

#### **Preventive**

**Measures:** Vaccines, Palivizumab for high-risk infants, good hygiene practices

#### Immunizations to Protect Against Severe RSV

	Who Does It Protect?	Type of Product	Who Is It Recommended For?	When Is It Available?
	Adults 60 and over	RSV vaccine	Adults ages 60-74 who are at increased risk of severe RSV AND Everyone ages 75 and older	Available any time, but best time to get vaccinated is late summer and early fall
	Babies	RSV antibody (nirsevimab) given to baby	All infants whose mother did not receive RSV vaccine during preg- nancy, and some children ages 8-19 months who are at increased risk for severe RSV	October through March*
TO THE PARTY OF TH	Babies	OR  RSV vaccine (Pfizer's ABRYSVO) given to mother during pregnancy	All pregnant women during weeks 32-36 of their pregnancy	September through January

CDC

## H5N1



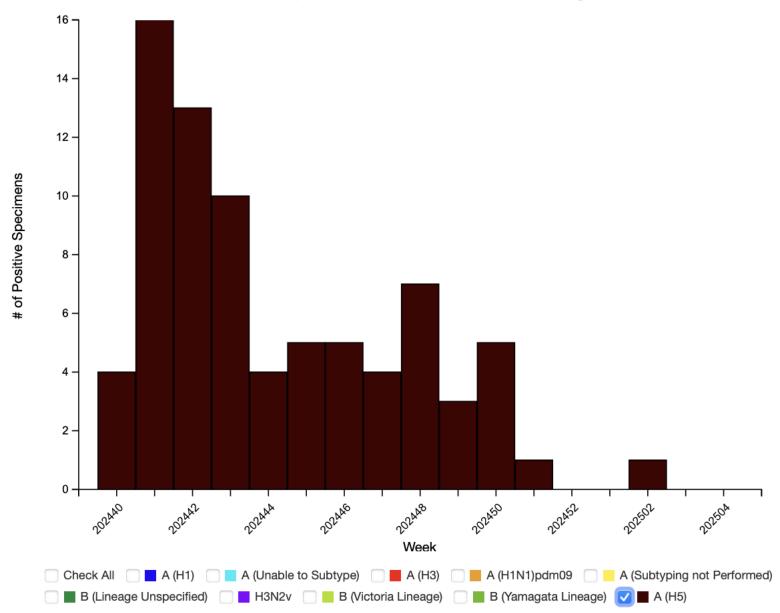
Season:

2024-25

Surveillance Area:

National

Influenza Positive Tests Reported to CDC by Public Health Laboratories, National Summary, 2024-25 Season, week ending Jan 25, 2025



## **H5N1**

#### H5 Bird Flu Detections in USA

- Dairy cattle: <u>Ongoing multi-state outbreak</u>
- Wild Birds: Widespread □
- Poultry Flocks: <u>Sporadic outbreaks</u>
- Mammals: <u>Sporadic infections</u>
- Person-to-person spread: None
- Current public health risk: Low

#### **Exposure Source**

## **H5N1**

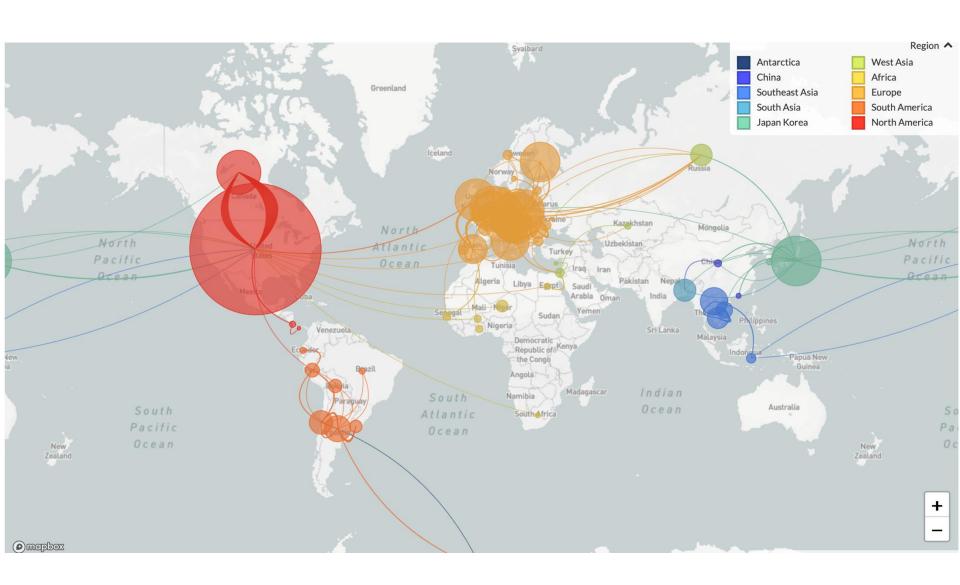
	Exposure Associated with Commercial Agriculture and Related Operations				
State	Dairy Herds (Cattle)	Poultry Farms and Culling Operations	Other Animal Exposure <sup>†</sup>	Exposure Source Unknown <sup>‡</sup>	State Total
California	36	0	0	2	38
Colorado	1	9	0	0	10
lowa	0	1	0	0	1
Louisiana	0	0	1	0	1
Michigan	2	0	0	0	2
Missouri	0	0	0	1	1
Oregon	0	1	0	0	1
Texas	1	0	0	0	1
Washington	0	11	0	0	11
Wisconsin	0	1	0	0	1
Source Total	40	23	1	3	67

#### Real-time tracking of influenza A/H5N1 virus evolution



Built with nextstrain/avian-flu. Maintained by Louise Moncla and the Nextstrain team. Data updated 2025-01-06. Enabled by data from USDA and GISAID.







## Distributed via the CDC Health Alert Network January 16, 2025, 10:00 AM ET

- Screen for exposure to wild and domestic animals, pets (cats), animal products, contact with another person with probable or known H5N1
- If avian influenza A(H5) virus infection is suspected, probable, or confirmed place the patient in an airborne infection isolation room with negative pressure with implementation by caregivers of <a href="standard, contact, and airborne precautions">standard, contact, and airborne precautions</a> with eye protection (goggles or face shield)
- Test for seasonal influenza A in hospitalized patients with suspected seasonal influenza or novel influenza A virus infection such as avian influenza A virus infection, using whatever diagnostic test is most readily available for initial diagnosis



## Distributed via the CDC Health Alert Network January 16, 2025, 10:00 AM ET

- If the initial diagnostic test does not subtype [e.g., identify A(H1) and A(H3)], order an influenza A subtyping diagnostic test within 24 hours of hospital admission for patients who tested positive for influenza A.
- Subtyping should be performed with assays available to the testing laboratory, as follows:
  - Subtyping tests should be performed in the hospital clinical laboratory, if available.
  - Alternatively, specimens should be sent to a commercial clinical laboratory.
  - If influenza A virus subtyping is not available through one of these routes, arrangements can made for influenza A virus-positive specimens to be subtyped at a public health laboratory.

Walking Pneumonia and Other Bacterial Infections

# Mycoplasma pneumoniae

Bordetella pertussis

#### **Reported Pertussis Cases**

2023: **7,063** 2024: **35,435** 

## Reported DTaP Vaccine Status of Children with Pertussis, Ages 6 months through 6 years



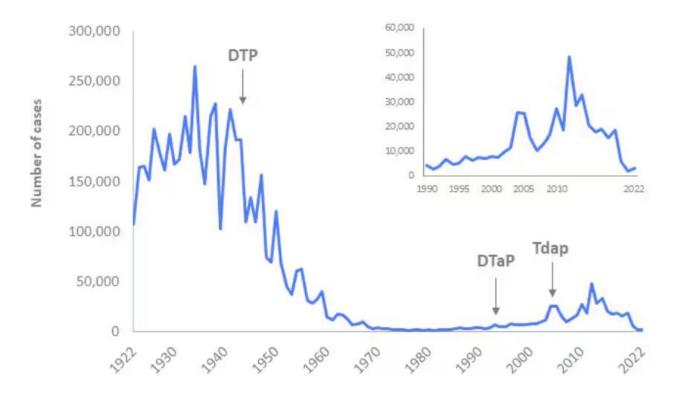
Age	Vaccine History Unknown	Unvaccinated	Undervaccinated (1-2 doses)	Completed Primary DTaP Series (3+ doses)	Total
	No. (%)	No. (%)	No. (%)	No. (%)	No.
6-11 mo	774 (67.3)	84 (7.3)	103 (9.0)	189 (16.4)	1,150
1-4 yrs	2,992 (62.3)	370 (7.7)	212 (4.4)	1,232 (25.6)	4,806
5-6 yrs	978 (56.4)	118 (6.8)	65 (3.8)	572 (33.0)	1,733
Total	4,744 (61.7)	572 (7.4)	380 (4.9)	1993 (25.9)	7,689

#### **Reported Pertussis Cases**

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#### Reported NNDSS pertussis cases: 1922-2022



## **Prevention Strategies**

Vaccination for flu, COVID-19, and RSV

Hand hygiene, maskwearing, social distancing (flu B Yamagata?)

Avoiding crowded places during peak seasons

## Public Health Measures

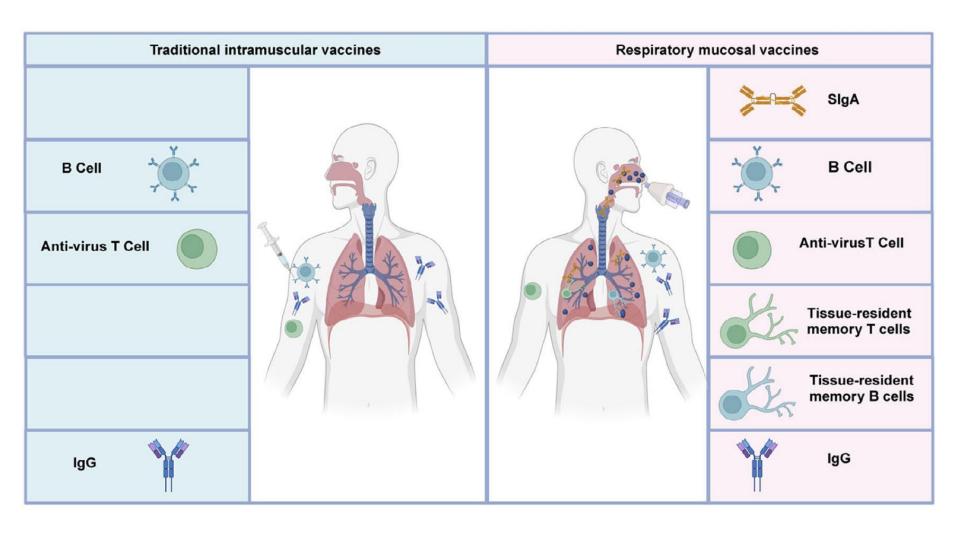
CDC recommendations and guidance

Role of healthcare providers in outbreak management

Community awareness initiatives

### **Future Outlook**

- Research on new vaccines and treatments
- Potential for seasonal trends and preparedness
- Role of AI and technology in RTI surveillance



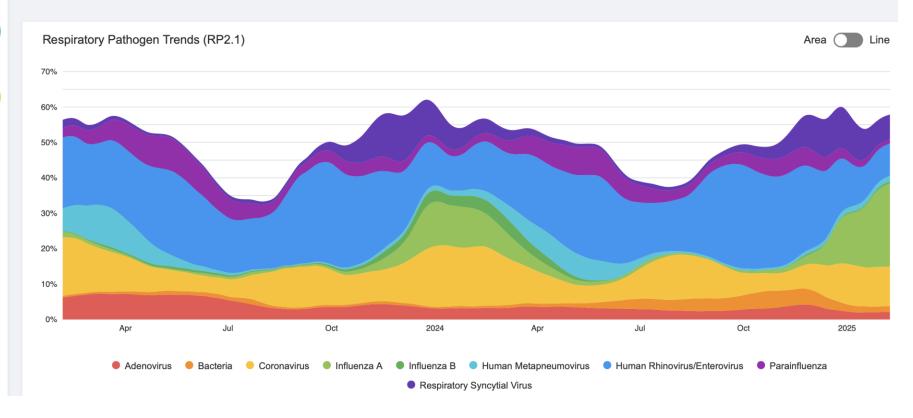
Zhou, M. et al. Novel vaccine strategies to induce respiratory mucosal immunity: advances and implications. *MedComm*6, e70056 (2025).



#### BIOFIRE® Syndromic Trends









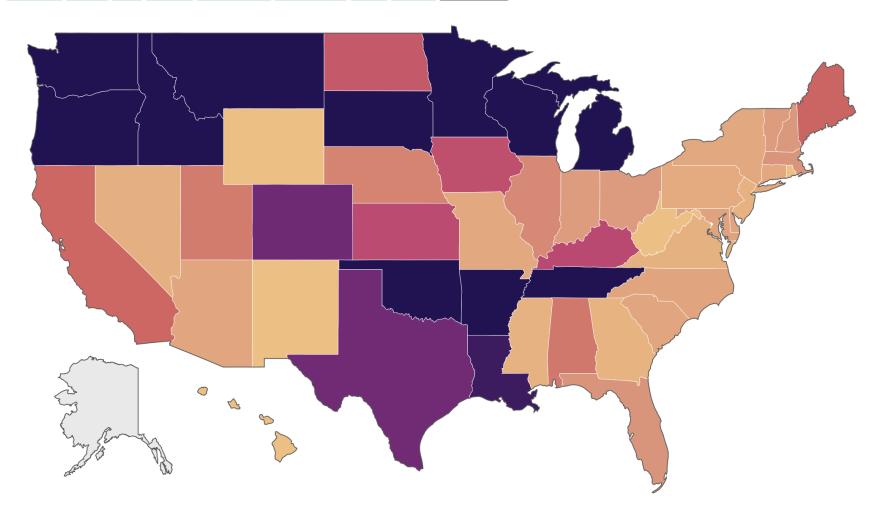
#### **Communicable Diseases by State**

Between 1/5/2025 and 1/18/2025



Metric

COVID HFM Flu Mono Norovirus Rotavirus RSV Strep Pertussis





#### **Communicable Diseases by State**

Between 1/5/2025 and 1/18/2025





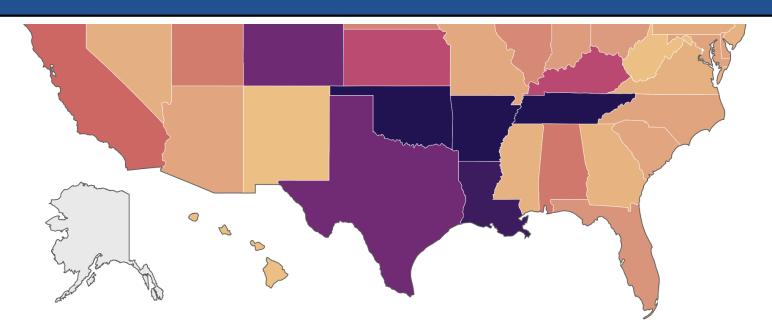




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