




Region VII Infectious Disease Briefing

**Hosted by
R7DHRE and GCHS**

June 24, 2025

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Region VII Updates

TUESDAY 06/24/2025



**GLOBAL CENTER
FOR HEALTH SECURITY**

- **Announcements/Updates**
- **Clinical Update – Dr. James Lawler**
- **Measles Region 7 Discussion- All**
- **Other Updates – All**

Upcoming Events

Visit the R7DHR calendar for more information and to register for events.



<https://www.regionviidhre.com/upcoming-events-calendar>



The Role of Forensic Nurses in Emergency Response and Infectious Disease

July 9th, 2025 | 1-2PM CT
Kalen M. Knight, MSN, MBA, RN, CEN, SANE-A

Join us for an informative webinar designed to deepen your understanding of the forensic nursing specialty. This session will explore the diverse roles forensic nurses play, their involvement in emergency response, and their critical contributions to managing infectious disease outbreaks. Through engaging case study analysis, you'll gain practical insights into how forensic nurses actively participate in emergency scenarios and disease management, expanding your knowledge of this essential field.



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RESPONSE ECOSYSTEM

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The Advanced Hazmat Life Support (AHLS)
Provider Course is the premier,
international course that teaches a

Achieving Data Quality & Integrity in Clinical Trials Involving High Consequence Pathogens

University of Nebraska Medical Center
Global Center for Health Security
Omaha, Nebraska
AUGUST 13 & 14, 2025



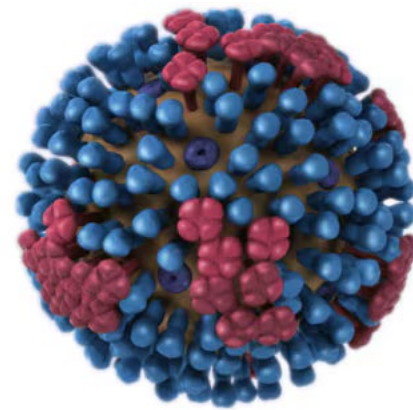
INTERNATIONAL & NATIONAL UPDATES

COVID-19 (and Other) Update

June 10, 2025



H5N1 Status





Unchanged Human H5N1 Infections

Situation summary of confirmed and probable human cases since 2024

Confirmed Cases

Probable Cases

State or territory

National ▾

Last reported human case: Wyoming, March 24

National Total Cases: 70

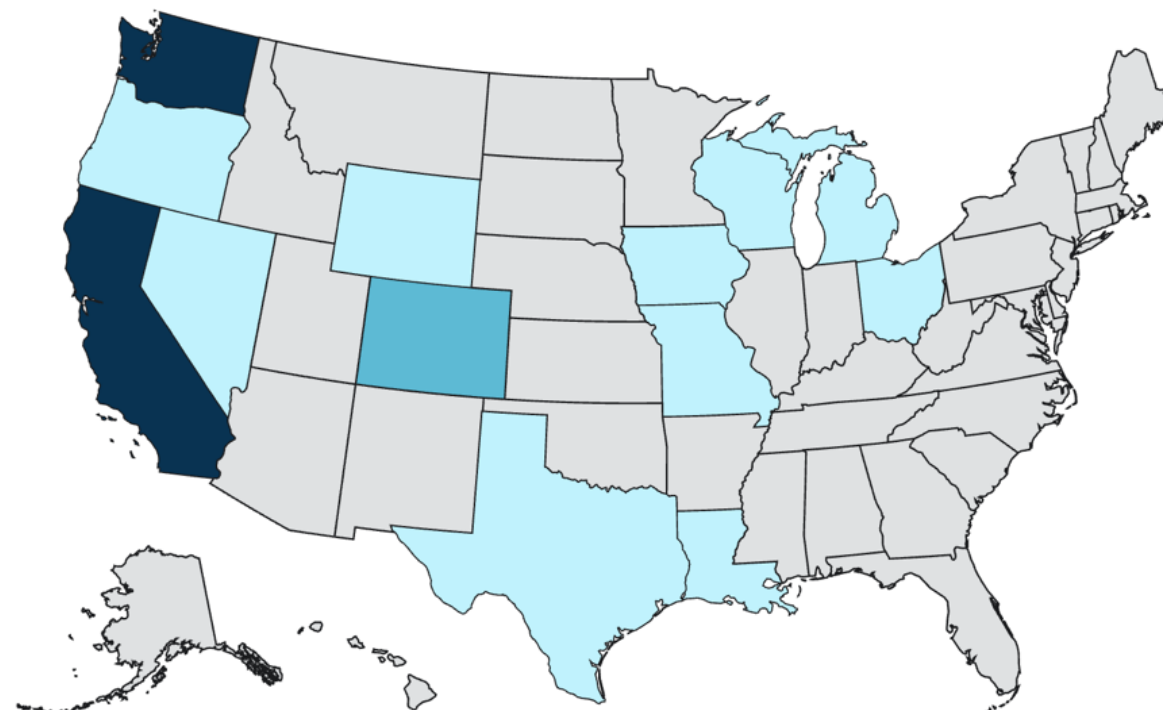
Cases	Exposure Source
41	Dairy Herds (Cattle)*
24	Poultry Farms and Culling Operations*
2	Other Animal Exposure†
3	Exposure Source Unknown‡

NOTE: One additional case was previously detected in a poultry worker in Colorado in 2022. Louisiana reported the first H5 bird flu death in the U.S.

*Exposure Associated with Commercial Agriculture and Related Operations

†Exposure was related to other animals such as backyard flocks, wild birds, or other mammals

‡Exposure source was not able to be identified





HPAI Confirmed Cases in Livestock Herds

Reporting period: March 25, 2024 through June 9, 2025

Last reported new confirmed case: Tuesday, June 3, 2025

Data updated weekdays by 12pm Eastern

[Download Data](#)

Choose time period

Choose species

Last 30 Days

Cattle

Situational Update

[Click for International Exports](#)

In the Last 30 Days, in Cattle, there were:
18 New Confirmed Cases in 2 States

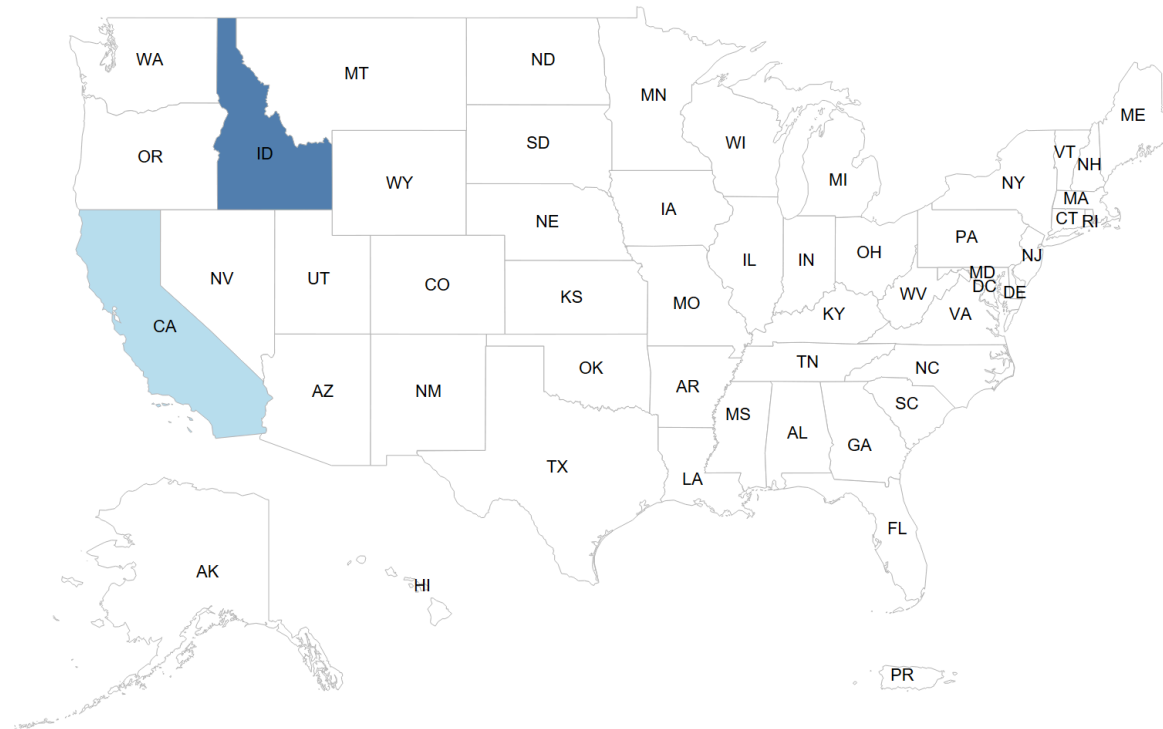
Number of New Confirmed Cases in Cattle by State, Last 30 Days

Legend

0

1 to 5

21 to 30





HPAI 2022/2023 Confirmed Detections

as of June 9, 2025
Last reported detection Thursday, June 5, 2025
Data updated weekdays by 12 PM (ET)

[Download Data](#)

Outbreak Situation Last 30 Days

8 Confirmed Flocks

Flocks tested and confirmed having HPAI

Commercial Flocks
5

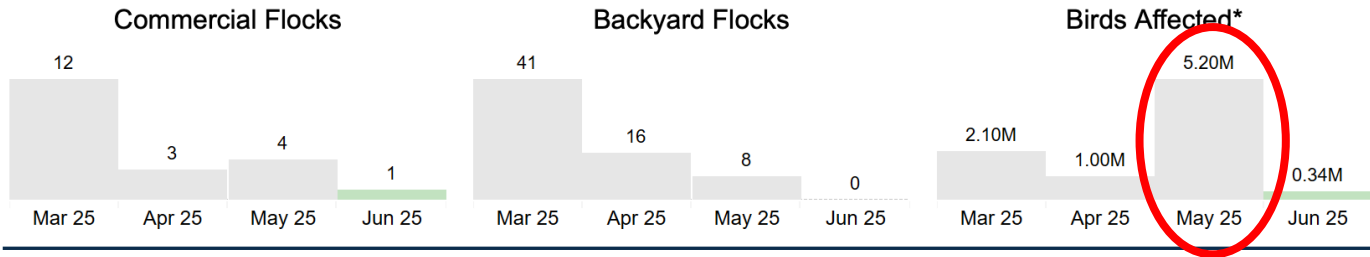
Backyard Flocks
3

Birds Affected*
5.54M

*Number of birds on confirmed infected premises.

Detections by Month

Bars reflect most recent 4 months.



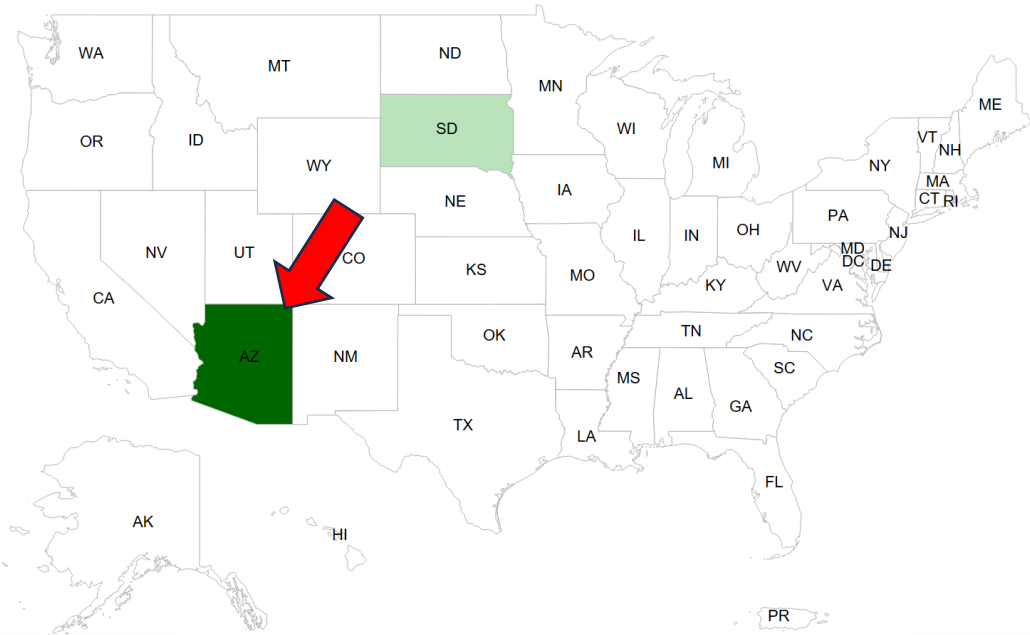
Choose variable
Commercial Flocks

Choose time period
Last 30 Days

Commercial Flocks by State

Legend 0

[Click For International Exports](#)





Time Period: May 25, 2025 - May 31, 2025

Wastewater Data for Avian Influenza A(H5)

H5 Detection
10 sites (2.5%)

No Detection
389 sites (97.5%)

No samples in last week
52 sites



Up from 8

Select a detection type below to add or remove it from the map.



H5 Detection

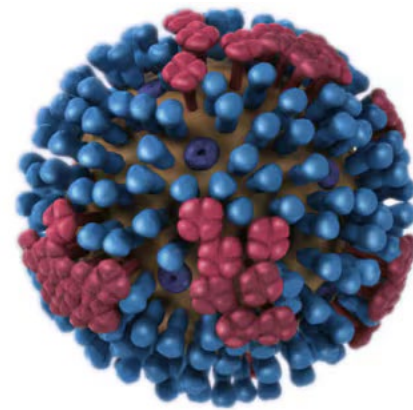


No Detection



No Samples in Last Week

Measles





Measles Outbreaks: USA

U.S. Cases in 2025

Total cases **+45**

1046

Age

Under 5 years: **311 (30%)**

5-19 years: **389 (37%)**

20+ years: **336 (32%)**

Age unknown: **10 (1%)**

Vaccination Status

Unvaccinated or Unknown: **96%**

One MMR dose: **1%**

Two MMR doses: **2%**

U.S. Hospitalizations in 2025

12%

+1

12% of cases hospitalized (**127** of 1046).

Percent of Age Group Hospitalized

Under 5 years: **22% (69 of 311)**

5-19 years: **8% (32 of 389)**

20+ years: **7% (25 of 336)**

Age unknown: **10% (1 of 10)**

U.S. Deaths in 2025

3



Measles Outbreaks: USA

U.S. Cases in 2025

Total cases **+122**

1168

Age

Under 5 years: **339 (29%)**

5-19 years: **439 (38%)**

20+ years: **381 (33%)**

Age unknown: **9 (1%)**

Vaccination Status

Unvaccinated or Unknown: **95%**

One MMR dose: **2%**

Two MMR doses: **3%**

U.S. Hospitalizations in 2025

+10

12%

12% of cases hospitalized (**137** of 1168).

Percent of Age Group Hospitalized

Under 5 years: **21% (71 of 339)**

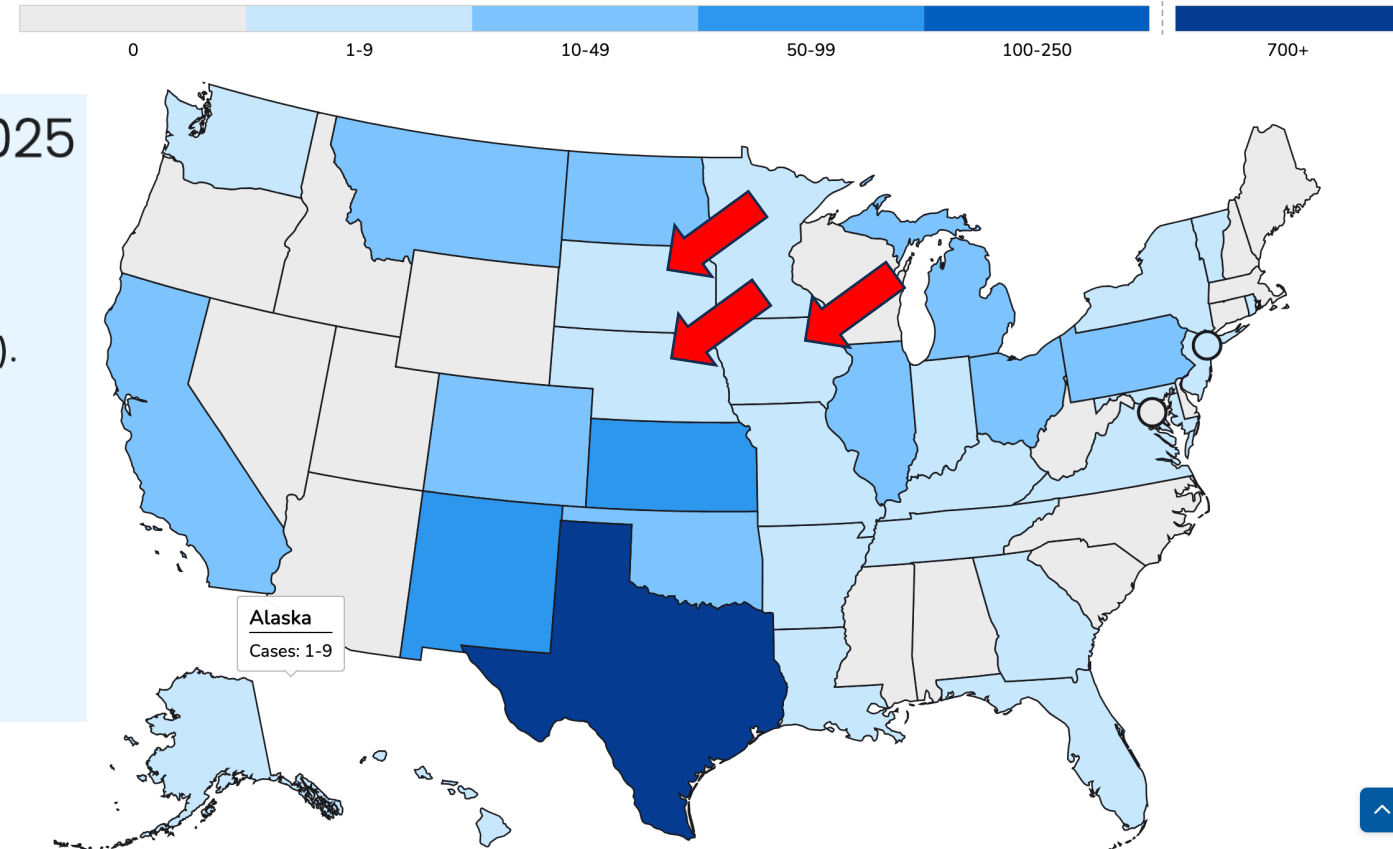
5-19 years: **8% (34 of 439)**

20+ years: **8% (31 of 381)**

Age unknown: **11% (1 of 9)**

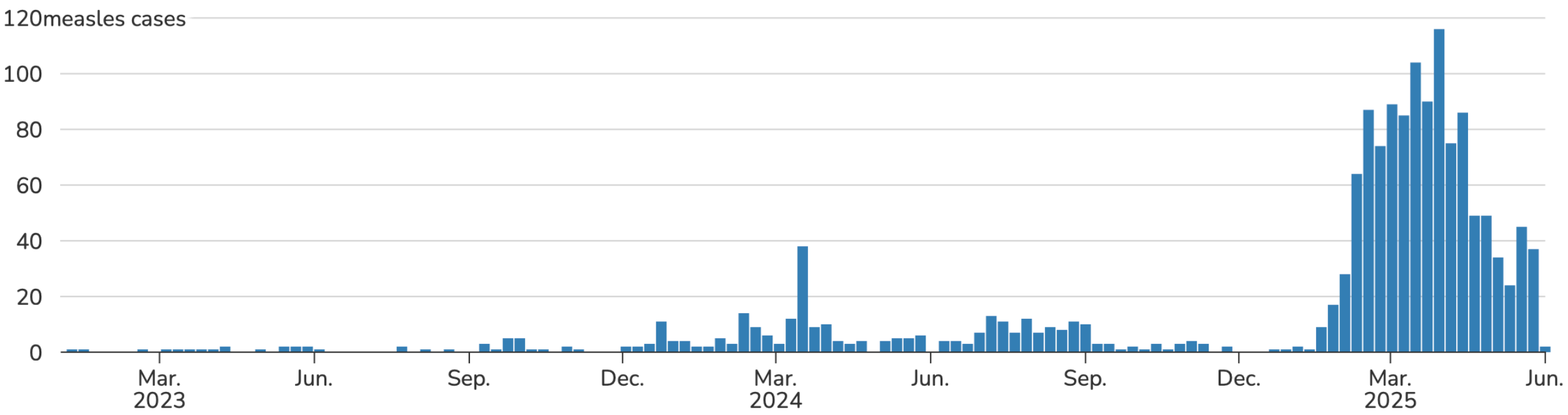
U.S. Deaths in 2025

3

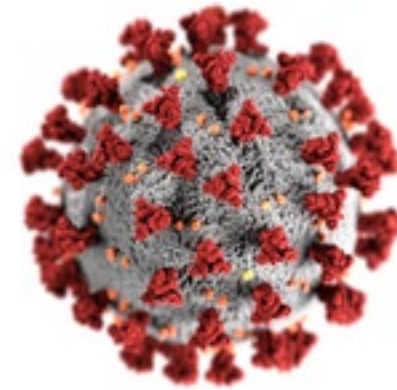


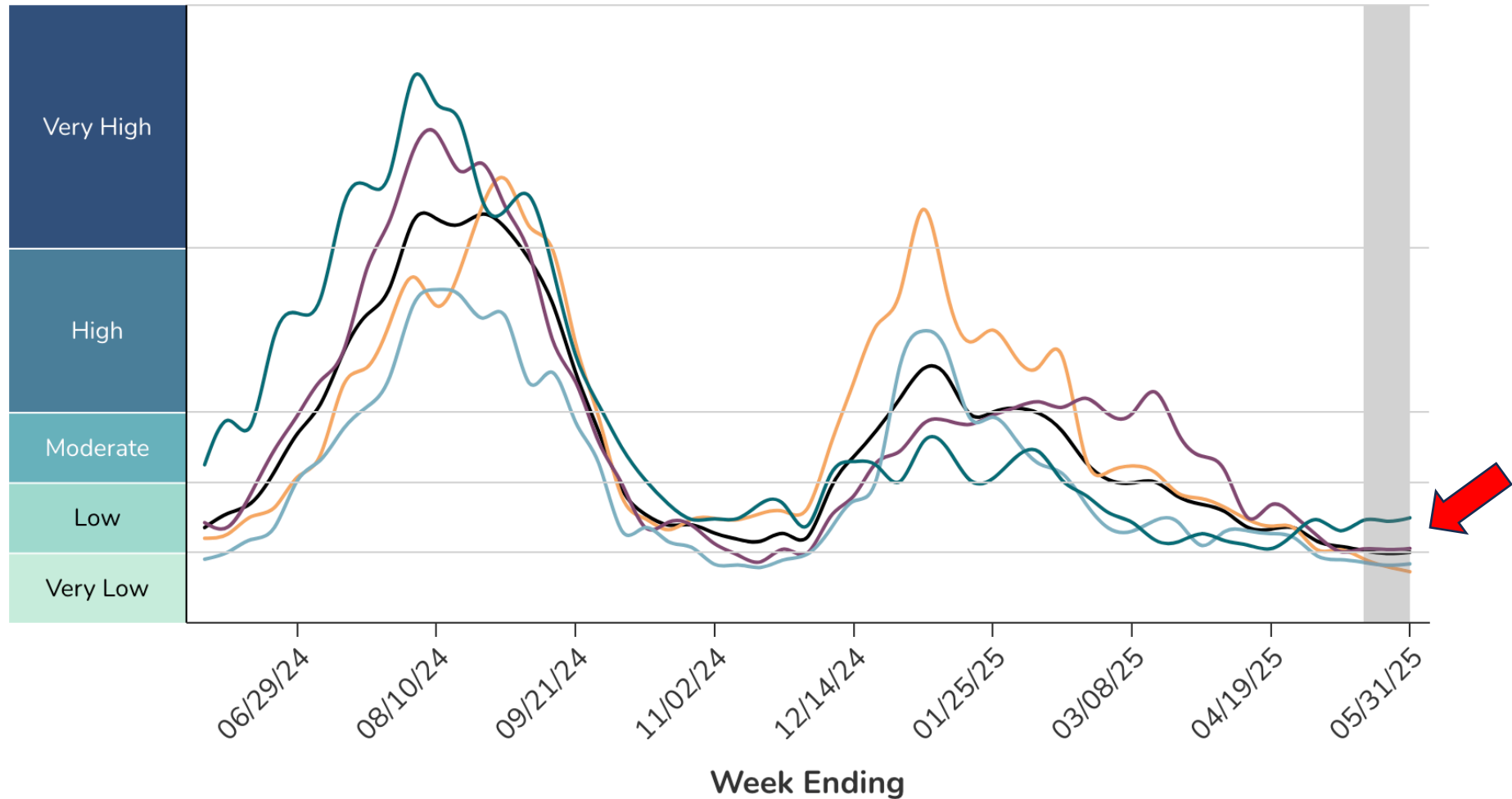
Weekly measles cases by rash onset date

2023–2025* (as of June 5, 2025)



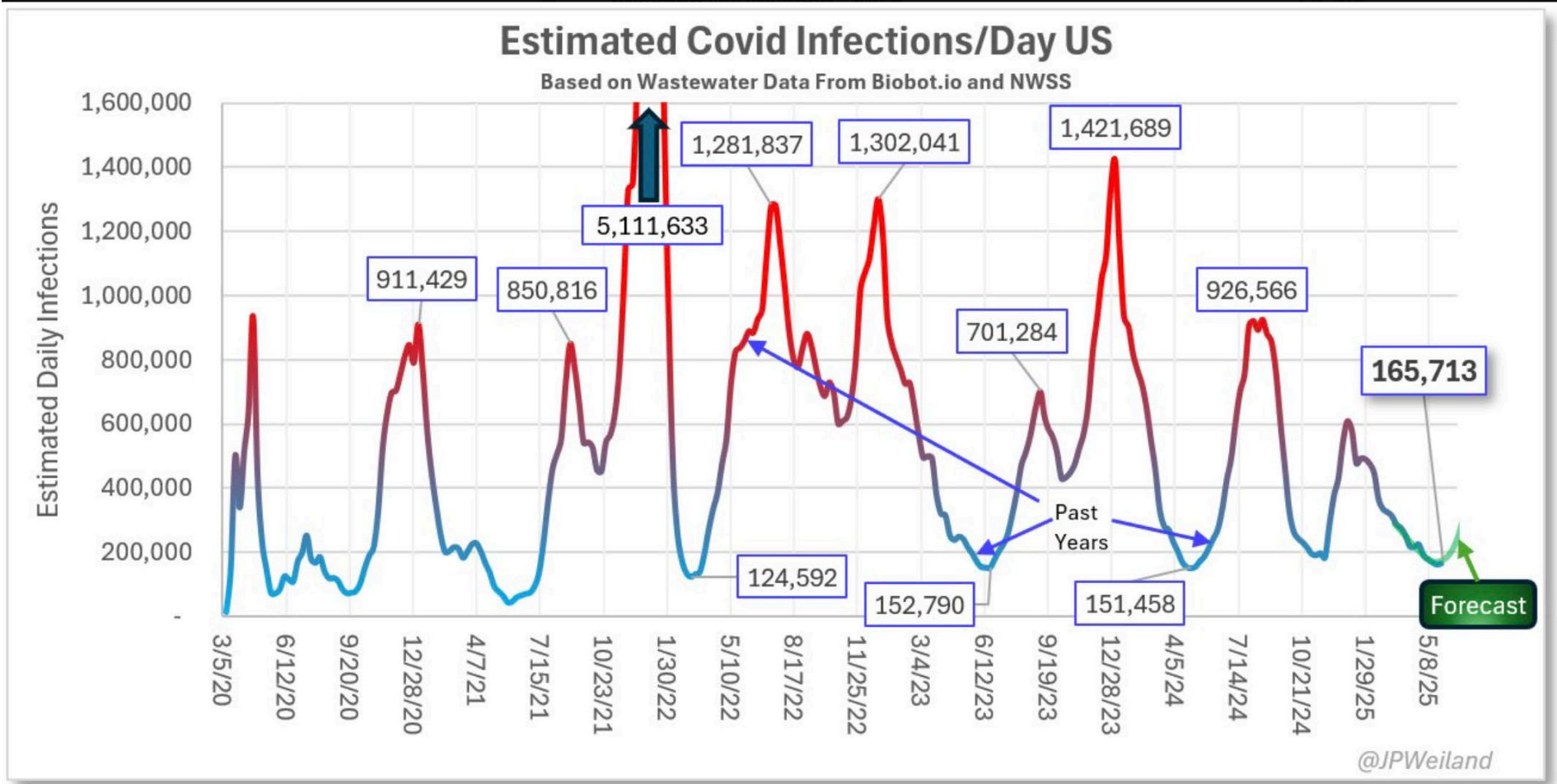
COVID Update





Select a geography to add or remove it from the visualization.

● National ● Midwest ● South ● Northeast ● West



JPWeiland

@JPWeiland

June 6th update:

A slight uptick this week. This is probably the lowest it'll be nationally for a few months, as XFG and "Nimbus" are forecasted to drive a summer wave.

◆ 167,000 new infections/day

◆ ~1 in 201 currently infected

◆ ~1 in 502 are reasonably infectious

1:36 PM · Jun 6, 2025 · 9,674 Views

12

73

363

66

↑

Post your reply

Reply

Ryan Harkn...

@itsryhark...

· Jun 6

...

What does the term "reasonably infectious" mean?

1

4

780

↑

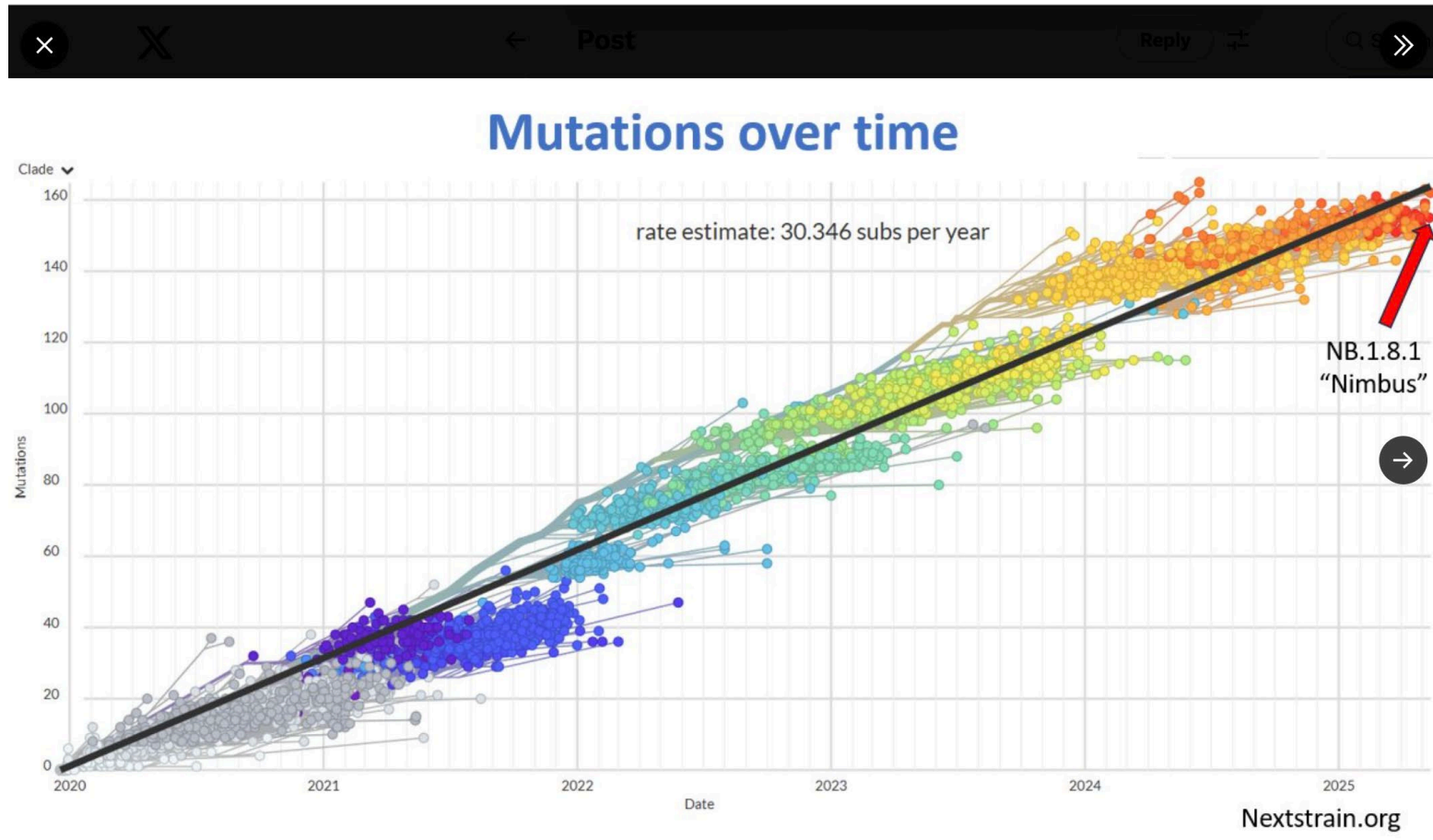
JPWeiland

@JPWeiland

· Jun 6

...

10 days was the standard "day of becoming infected to day of recovery", but people are only on average infectious to someone outside of a



T. Ryan Gregory 
@TRyanGregory



While officially "Omicron" (all Greek letters were given between May and November 2021, and none since), Nimbus (NB.1.8.1) is of course very divergent from its early Omicron ancestors.

9:48 AM · May 27, 2025 · 12.4K Views



1



54



369



27



Post your reply

Reply



T. Ryan Greg... @TRyan... · May 27 ···

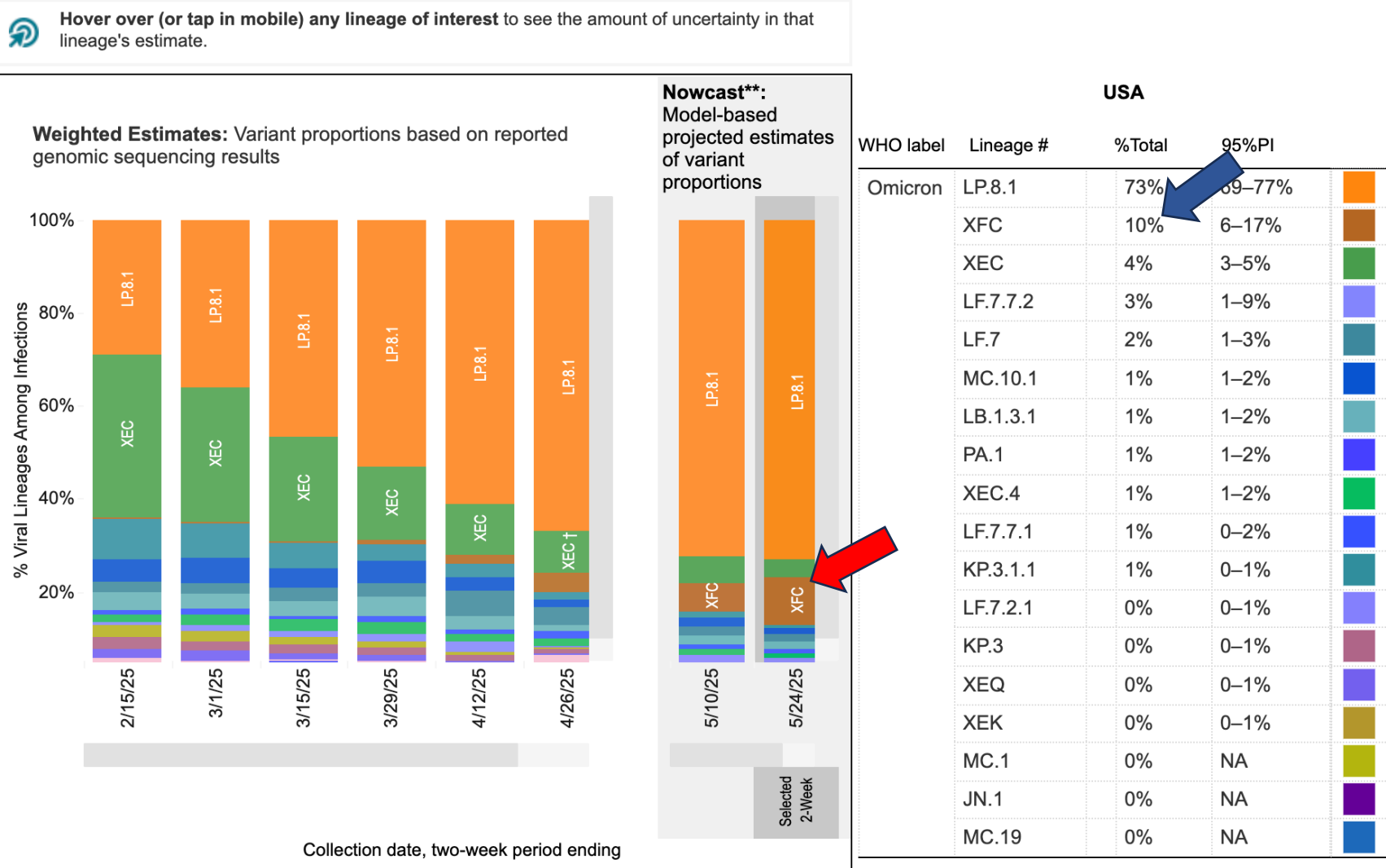
In terms of current vaccines, Moderna and Pfizer target KP.2 (= JN.1.11.1.2) and Novavax targets JN.1. Recent recommendations were to keep them the same, though it looks lime they may be going with LP.8.1, which is not particularly close to NB.1.8.1.

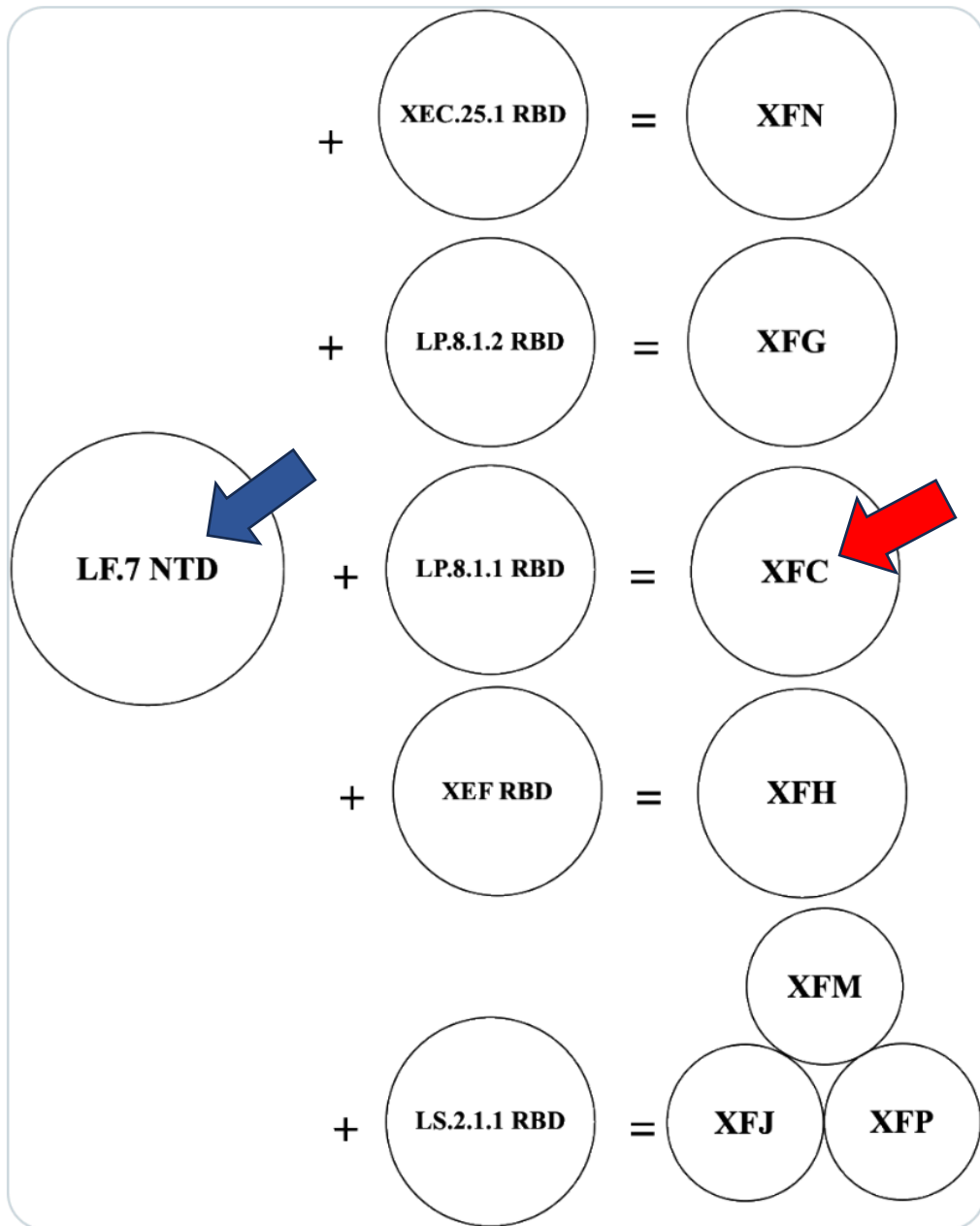
[nbcnews.com/health/health-...](https://www.nbcnews.com/health/health-...)

Variant Proportions

Weighted and Nowcast Estimates in United States for 2-Week Periods in 2/2/2025 – 5/24/2025

Nowcast Estimates in United States for 5/11/2025 – 5/24/2025





Xu Zou @xz_keg · Jun 7



A group of recombinants are growing as fast as Nimbus NB.1.8.1. An interesting thing is that these recombinants, **XFC**, XFG, XFH, XFJ, XFM, XFN and XFP, all formed by an LF.7 NTD of S:T22N+S31P+K182R+R190S, combined with RBD from different other variants.

10

71

152

11K

SARS-CoV-2 phylogeny



Built with [neherlab/nextclade_data_workflows](#). Maintained by [Cornelius Roemer](#) and [Richard Neher](#). Data updated 2025-06-09.



Nextstrain

Real-time tracking of pathogen evolution

Showing 6 of 4001 genomes. Filtered to { [BA.1 \(1\)](#) , [JN.1 \(1\)](#) , [LF.8.1 \(1\)](#) , [NB.1.8 \(1\)](#) , [XFC \(1\)](#) , [XFG \(1\)](#) }.

Phylogeny

Clade

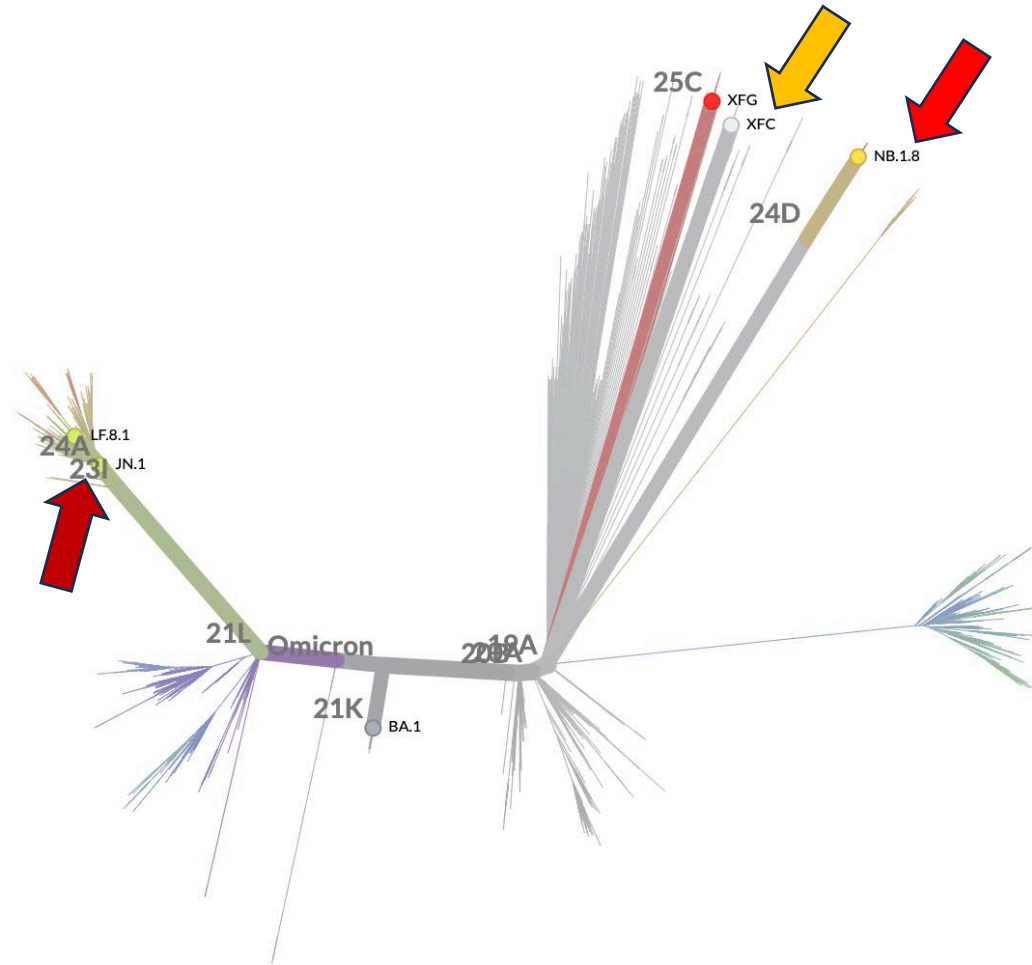
- 24A
- 24D
- 25C

- recombinant
- 21K



ZOOM TO SELECTED

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Antigenic and Virological Characteristics of SARS-CoV-2 Variant BA.3.2, XFG, and NB.1.8.1

Caiwan Guo, Yuanling Yu, Jingyi Liu, Fanchong Jian, Sijie Yang, Weiliang Song, Lingling Yu, Fei Shao, Yunlong Cao

doi: <https://doi.org/10.1101/2025.04.30.651462>

This article is a preprint and has not been certified by peer review [what does this mean?].

Posted May 01, 2025.

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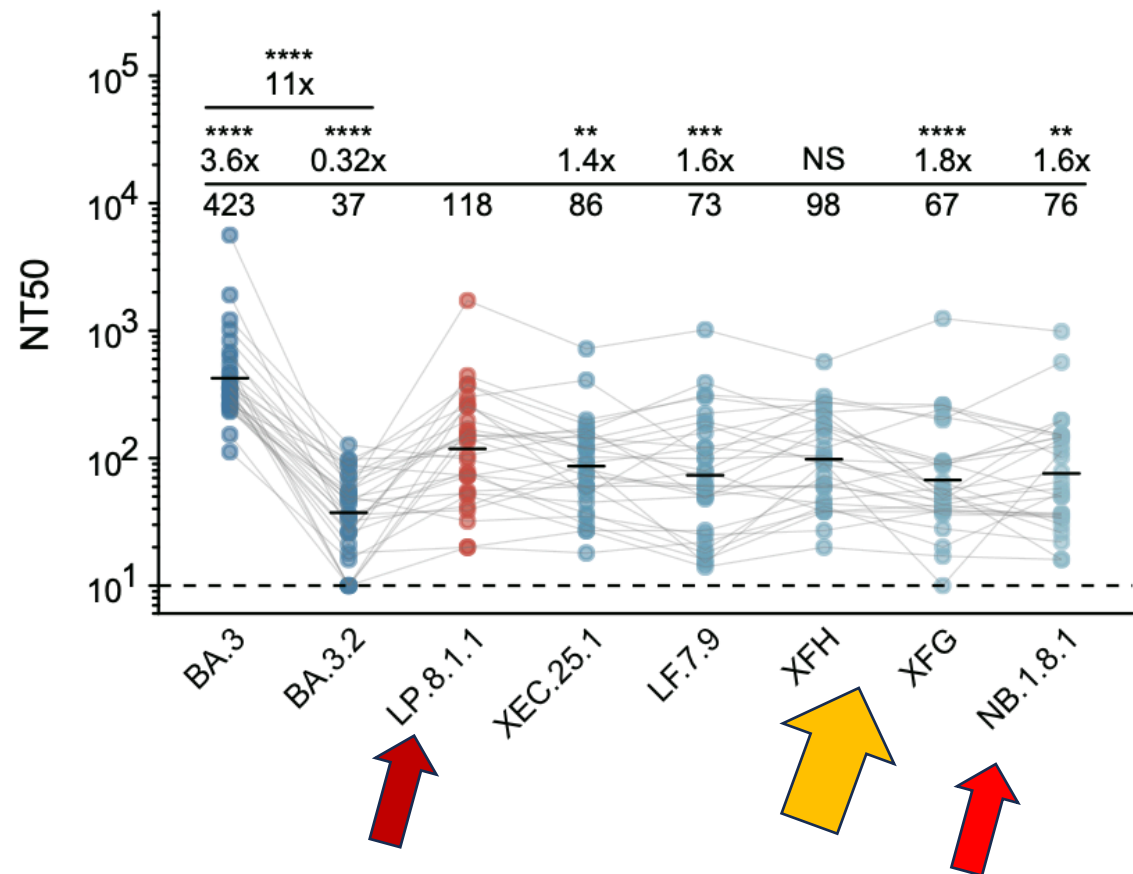
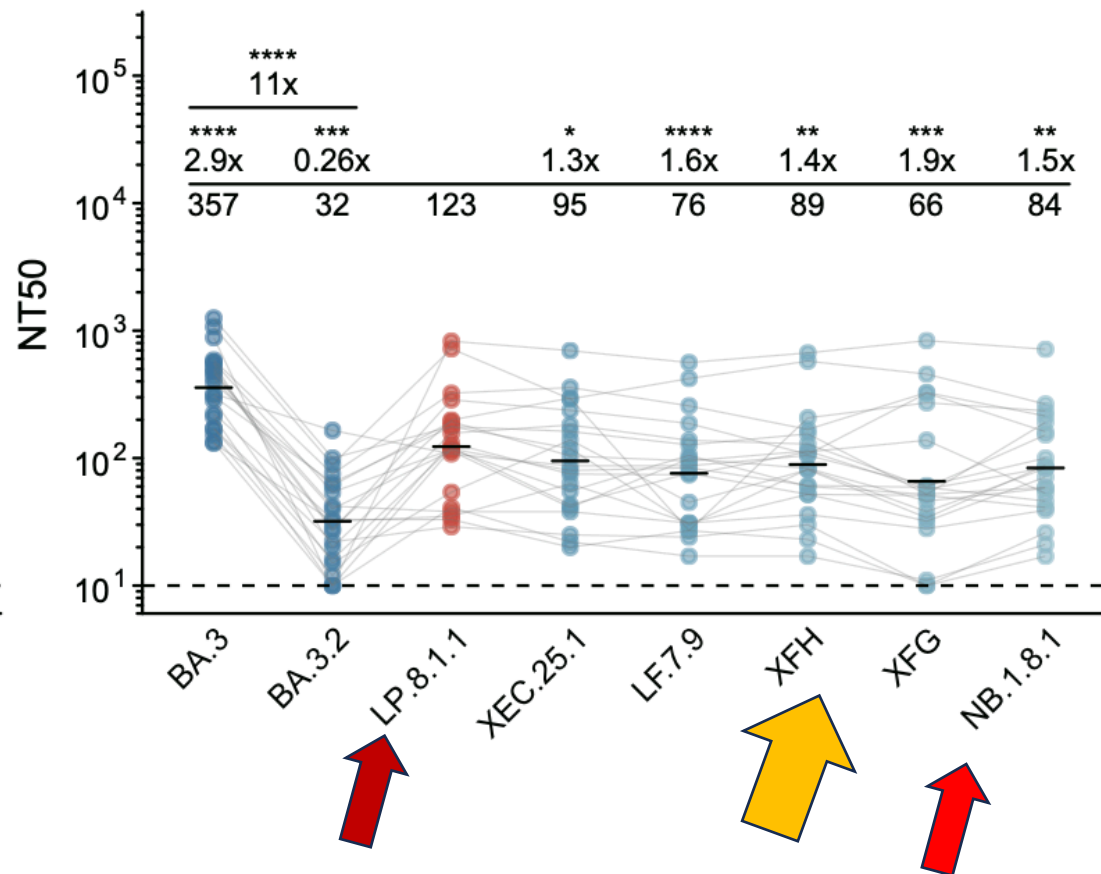
CORRESPONDENCE · [Online first](#), June 05, 2025

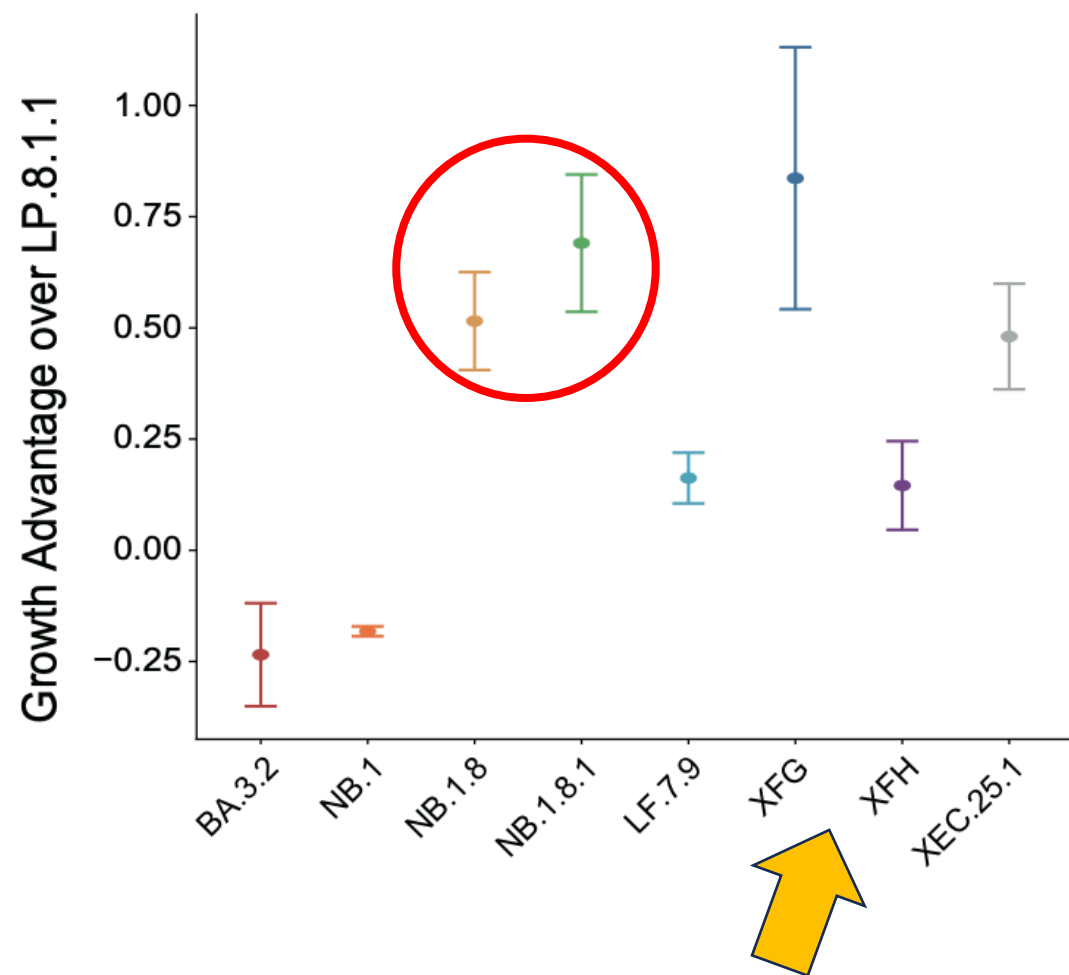
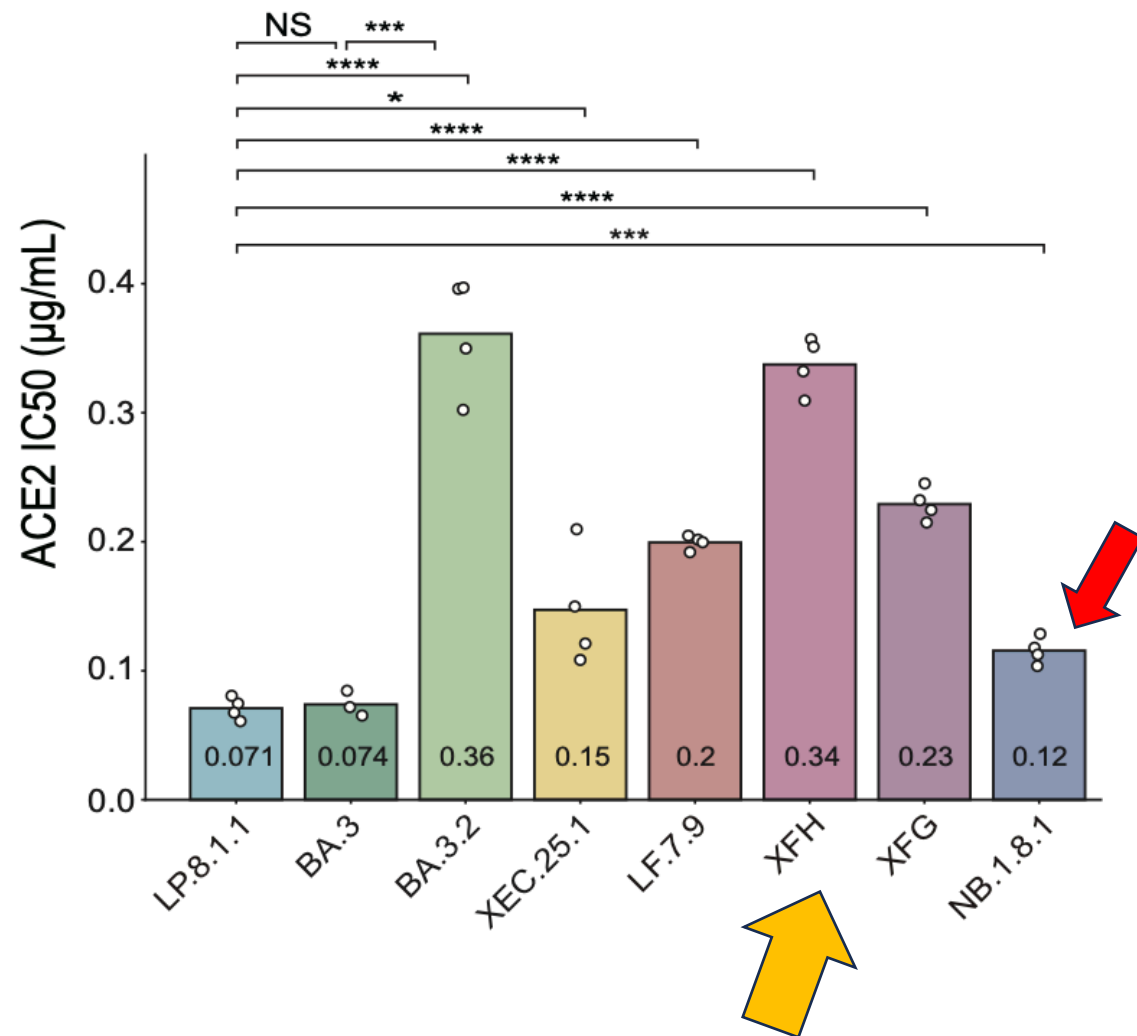
Antigenic and virological characteristics of SARS-CoV-2 variants BA.3.2, XFG, and NB.1.8.1

[Caiwan Guo](#)^{a,b,c} · [Yuanling Yu](#)^b · [Jingyi Liu](#)^{a,b,d} · [Fanchong Jian](#)^{a,b,e} · [Sijie Yang](#)^{a,b,f} · [Weiliang Song](#)^{a,b,g} · et al. [Show more](#)

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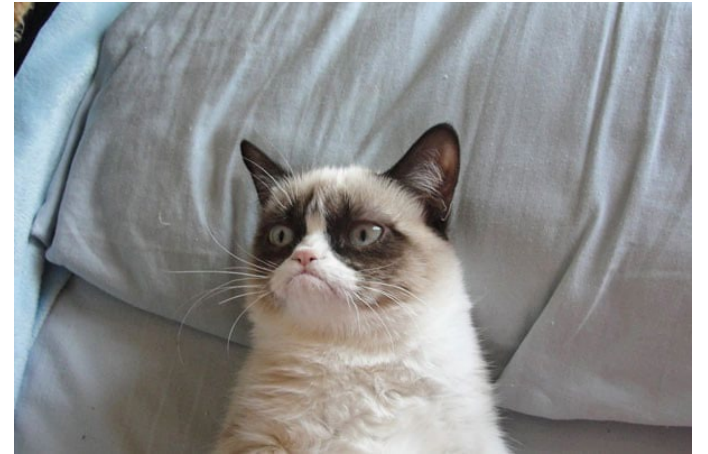
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E**BA.5 BTI with JN.1 infection (n=29)****BA.5 BTI with JN.1/XDV+F456L infection (n=21)**

B**C****D**

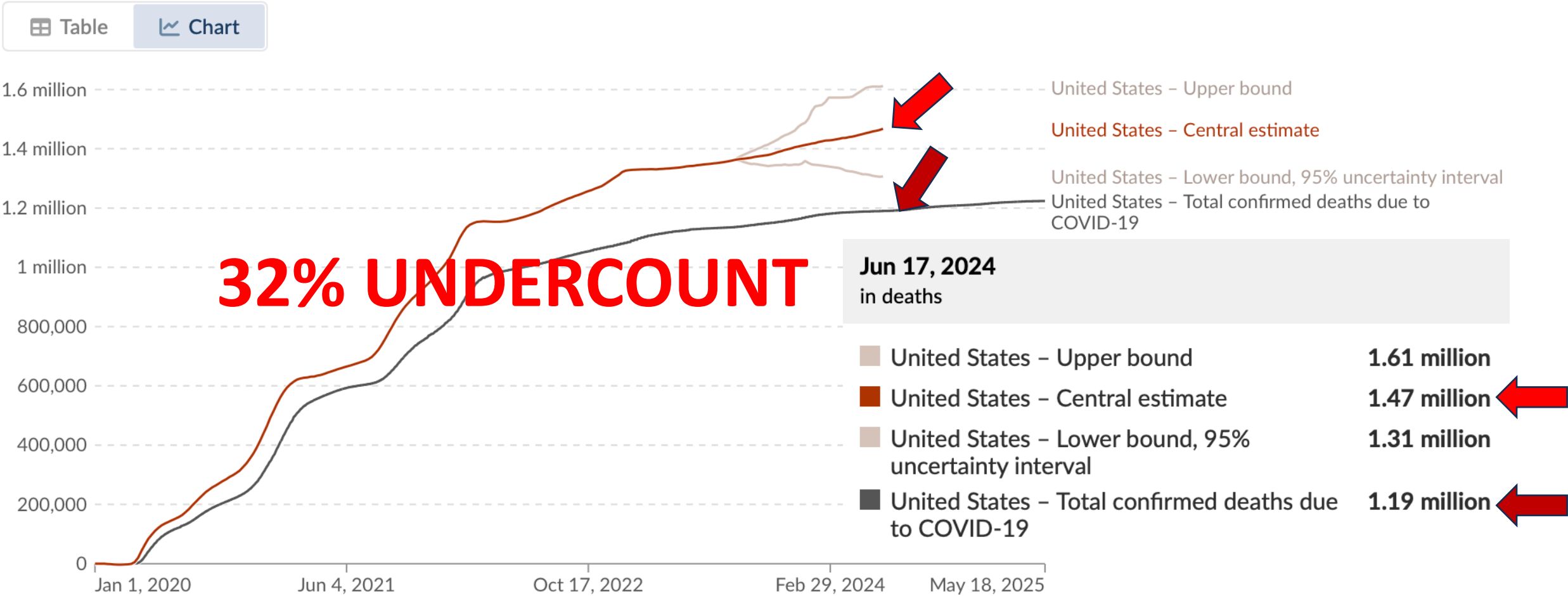
XFC vs NB.1.8 vs ?

COVID-19 Depressing News of the Week

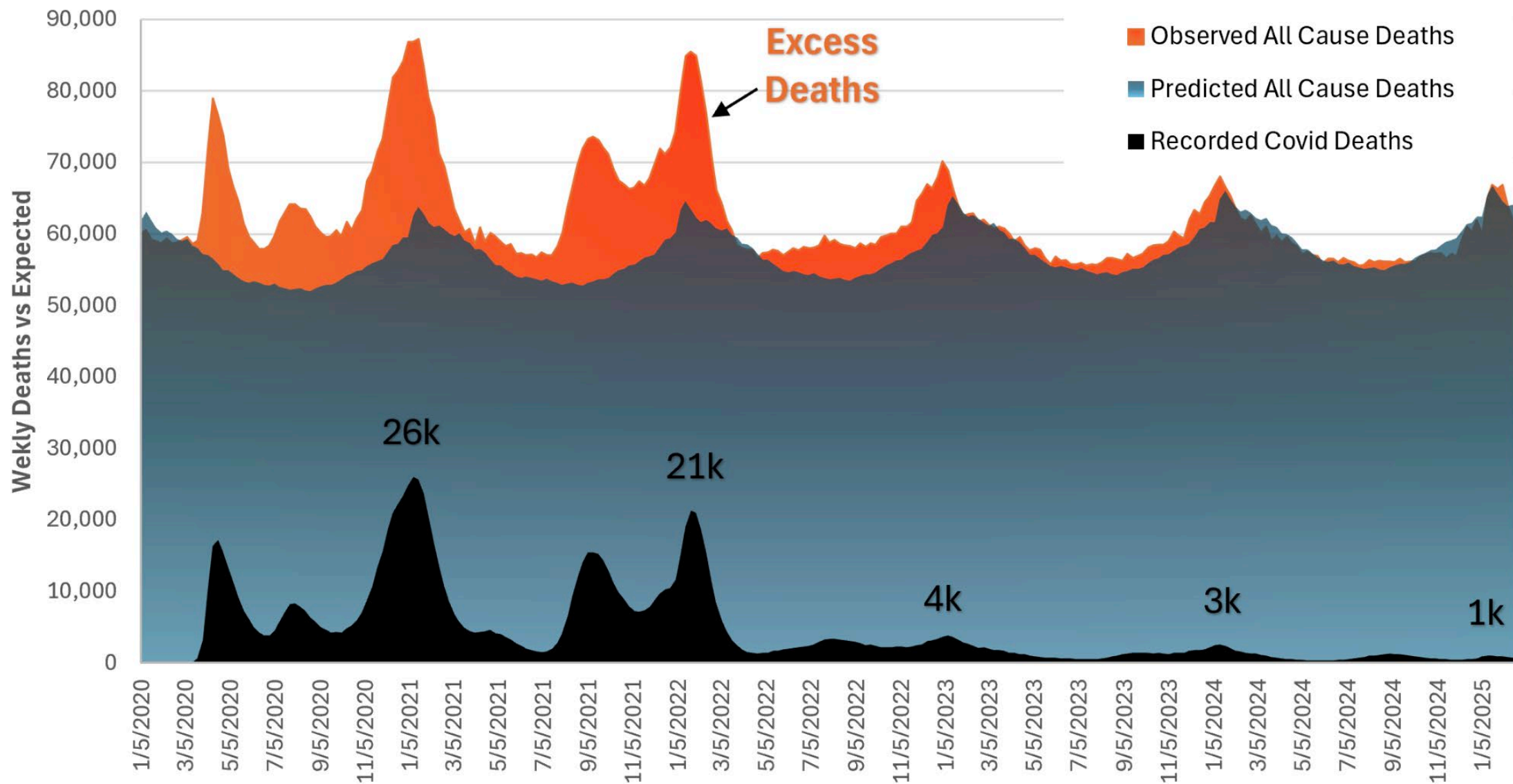


Estimated cumulative excess deaths during COVID-19, United States

For countries that have not reported all-cause mortality data for a given week, an estimate is shown, with uncertainty interval. If reported data is available, that value only is shown.



Weekly All-Cause Deaths, Projected Deaths, Recorded Weekly Covid Deaths





Post



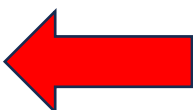
BNO News 

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Weekly U.S. COVID update:

- New cases: 52,157 est.
- Admissions: 3,651 (+0.2%)
- In hospital: 3,338 (-1%)
- In ICU: 435 (-3%)
- New deaths: 474 
- Average: 282 (+11%)

10:56 PM · Jun 8, 2025 · **87K** Views



14



168



403



41





The Vertlartnic



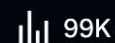
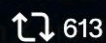
KURT RIPLEY/THE VERTLARTNIC

Thousands Of Covid Deaths Each Week Are Now Milder Deaths, Say Doctors.

SALVADOR DOOLALY



613 People are first to know

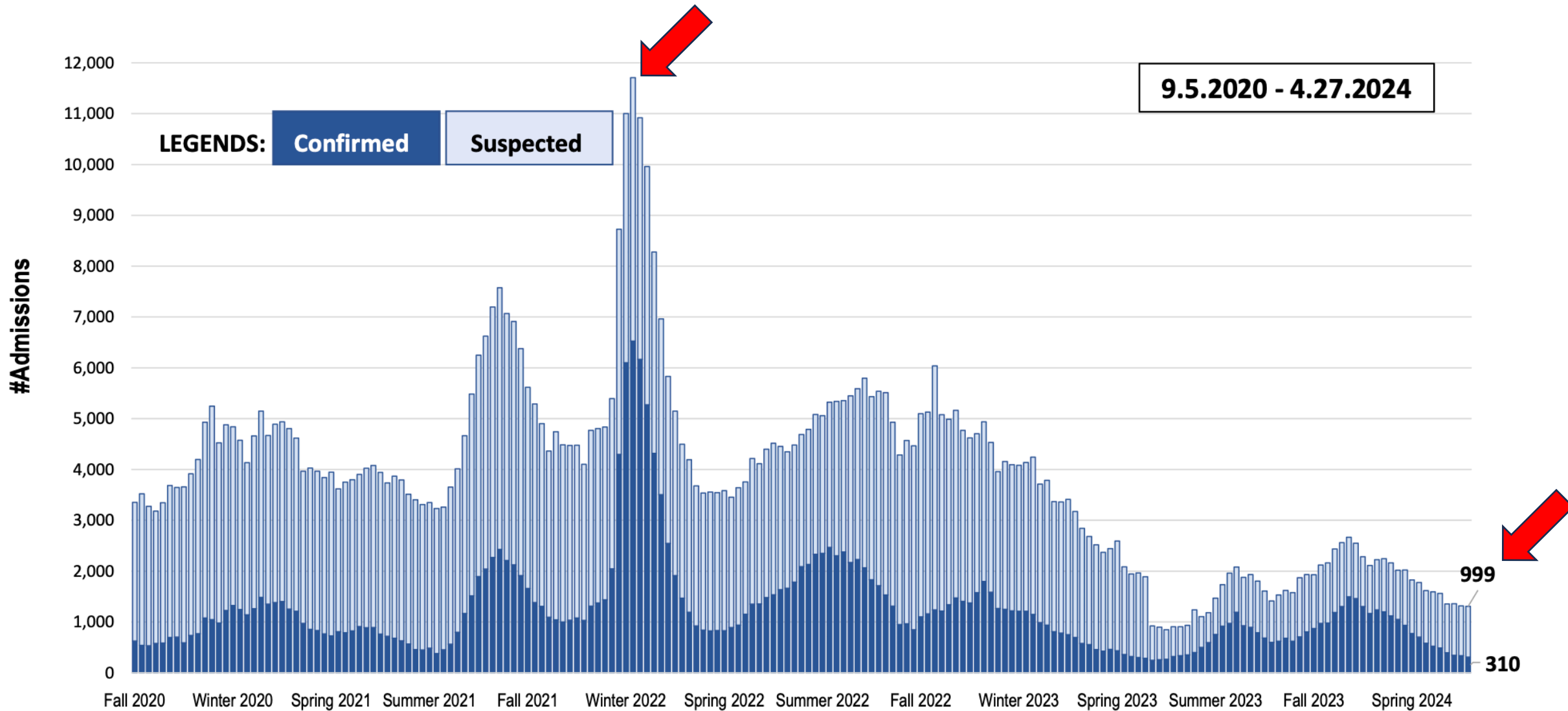


Trends in the Number of Hospital-reported COVID-19 Pediatric Admissions

**A report from the American Academy of Pediatrics
June 2024**

Summary of admission data reported by hospitals to the
US Department of Health and Human Services
September 2020 - April 2024

Confirmed and Suspected COVID-19 Past-week Pediatric Hospital Admissions (Age < 18)



Source: AAP Research analysis of "COVID-19 Reported Patient Impact and Hospital Capacity by State Timeseries", U.S. Department of Health & Human Services
<https://healthdata.gov/Hospital/COVID-19-Reported-Patient-Impact-and-Hospital-Capa/g62h-syeh>

Provisional Maternal Mortality Rates, 12-month period ending December 2024

Based on data available for analysis on: April 6, 2025

Provisional Maternal Mortality Rates

Figure 1. 12-month ending provisional maternal mortality rates: United States

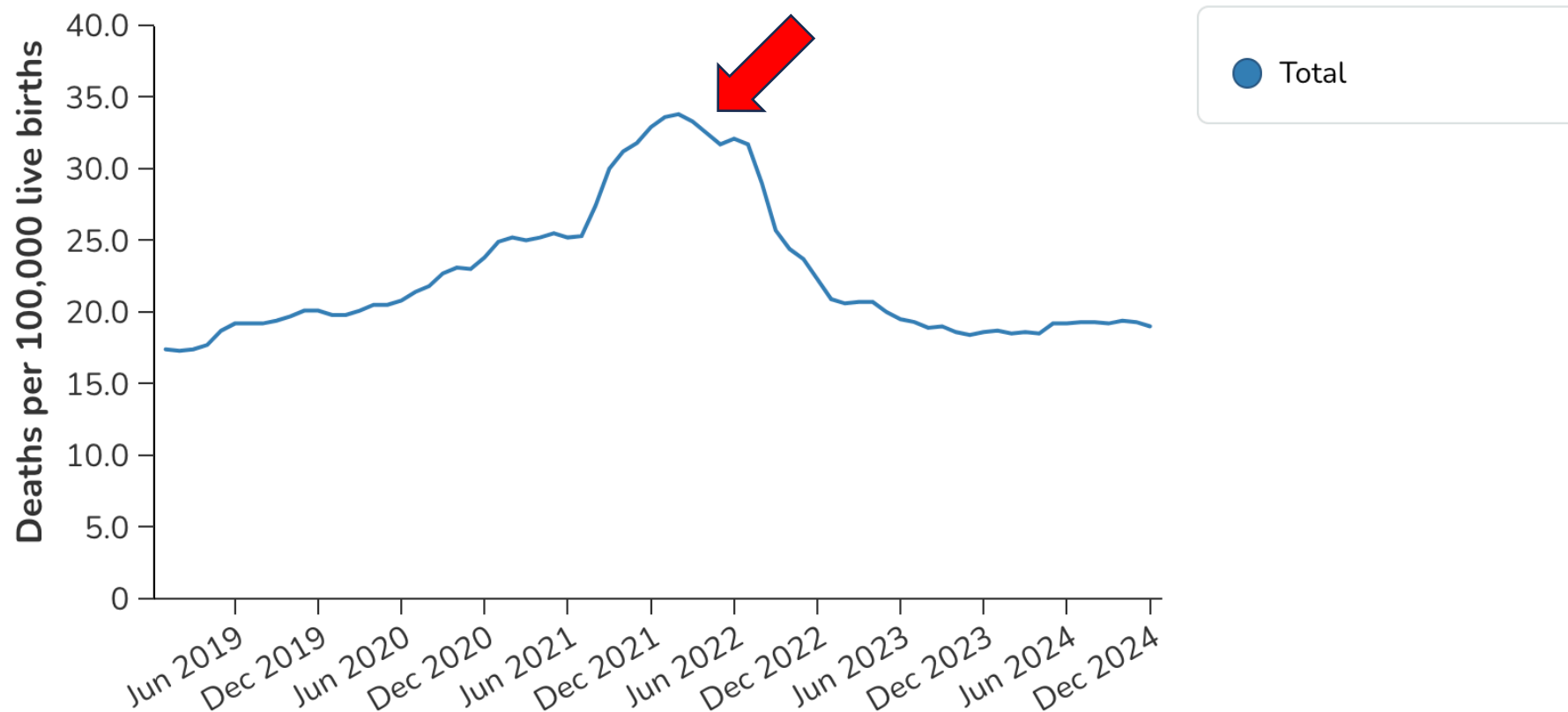




Figure 2A. Percent of Pregnant Women Ages 18–49 Years Who Have Received a COVID-19 Vaccine Overall, by Race and Ethnicity, and Season
Data Source: Vaccine Safety Datalink

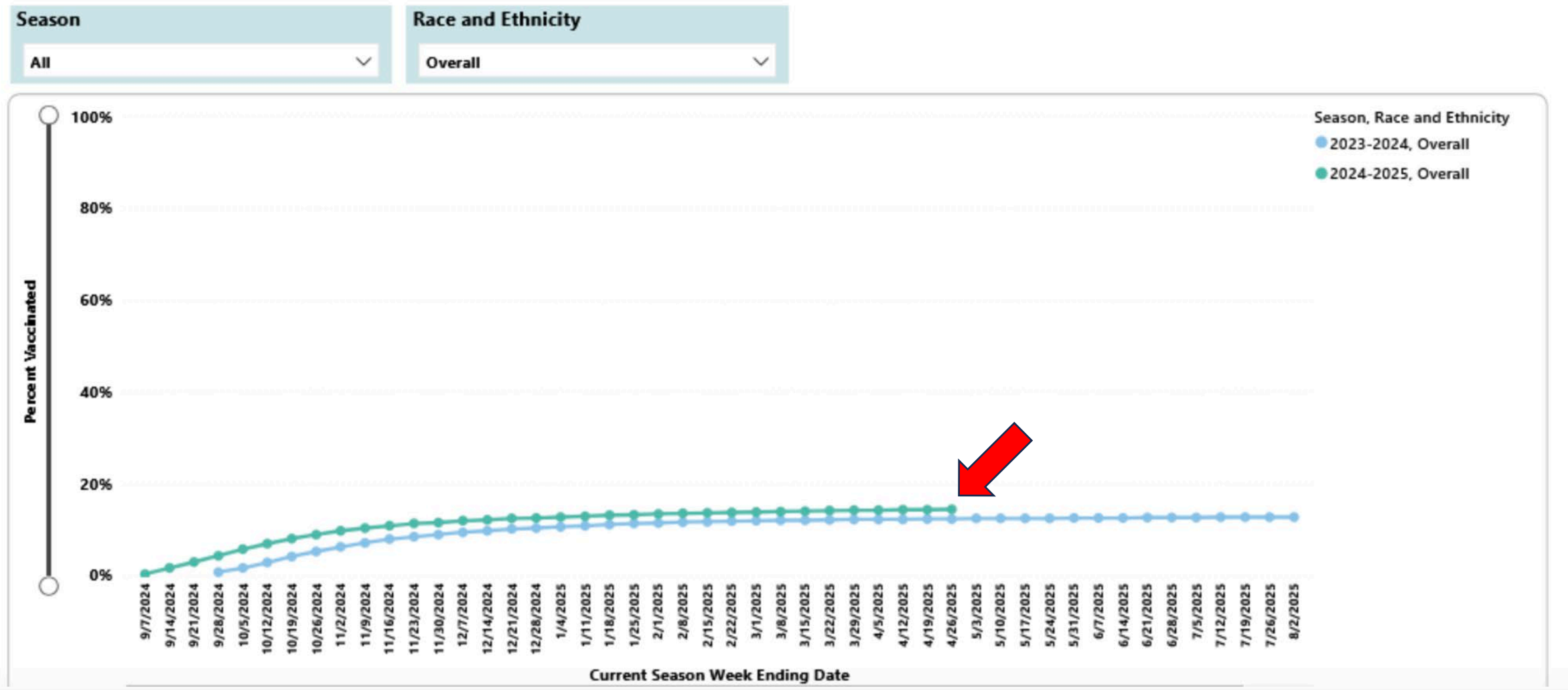
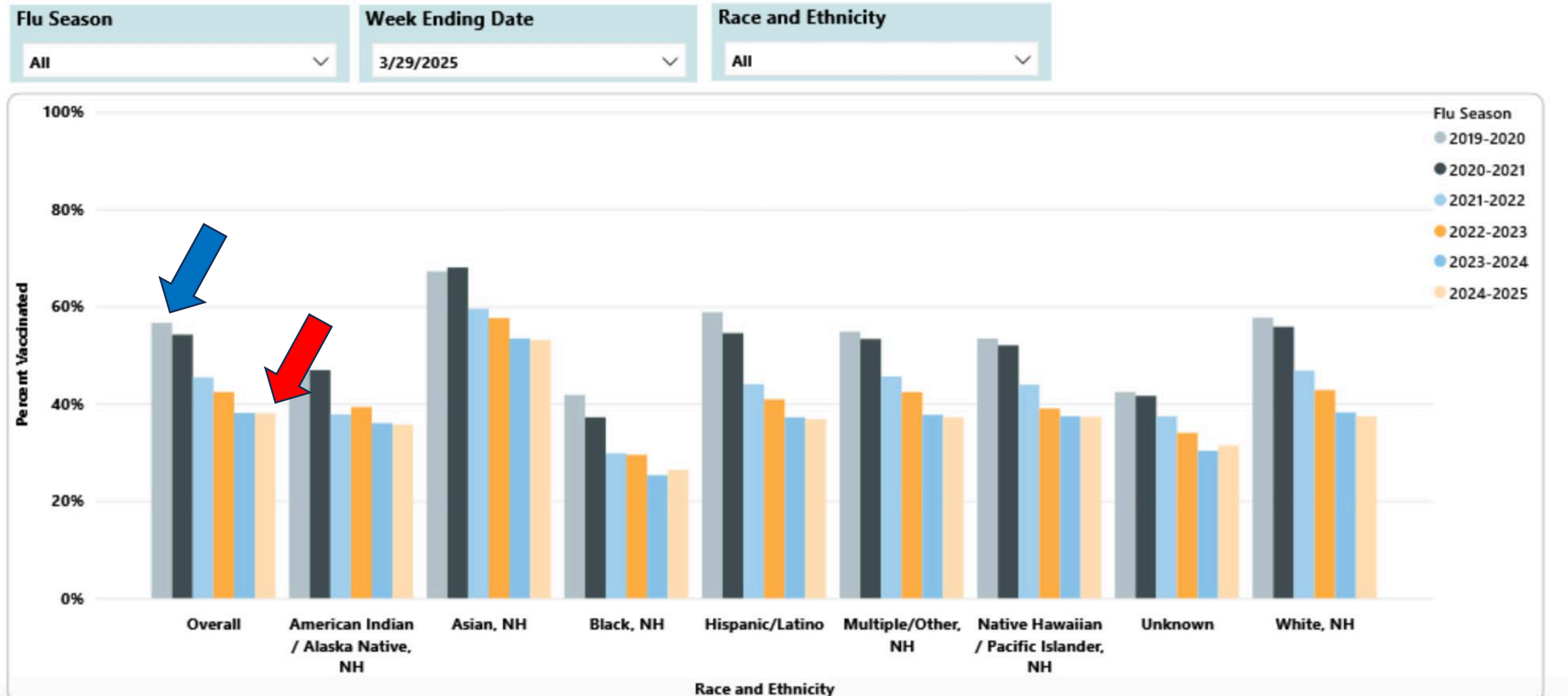




Figure 3B. Percent of Pregnant Women Ages 18–49 Years Who Have Received an Influenza Vaccine by Week, Race and Ethnicity, and Season
Data Source: Vaccine Safety Datalink



Kennedy Removes All C.D.C. Vaccine Panel Experts

The U.S. health secretary chose to “retire” members of a committee that makes significant decisions about who receives immunizations, including the vaccines for children.

Listen to this article · 8:38 min [Learn more](#)

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1.3K

The New York Times



Robert F. Kennedy Jr., the health secretary, in April. Pete Kiehart for The New York Times



By **Apoorva Mandavilli**

June 9, 2025

COVID-19 Good News of
the Week?



FDA approves a next-generation Covid vaccine from Moderna, with restrictions

As with Novavax product, use will be limited to certain populations



Adobe



By **Helen Branswell** May 31, 2025

Senior Writer, Infectious Diseases

Moderna Receives U.S. FDA Approval for COVID-19 Vaccine mNEXSPIKE

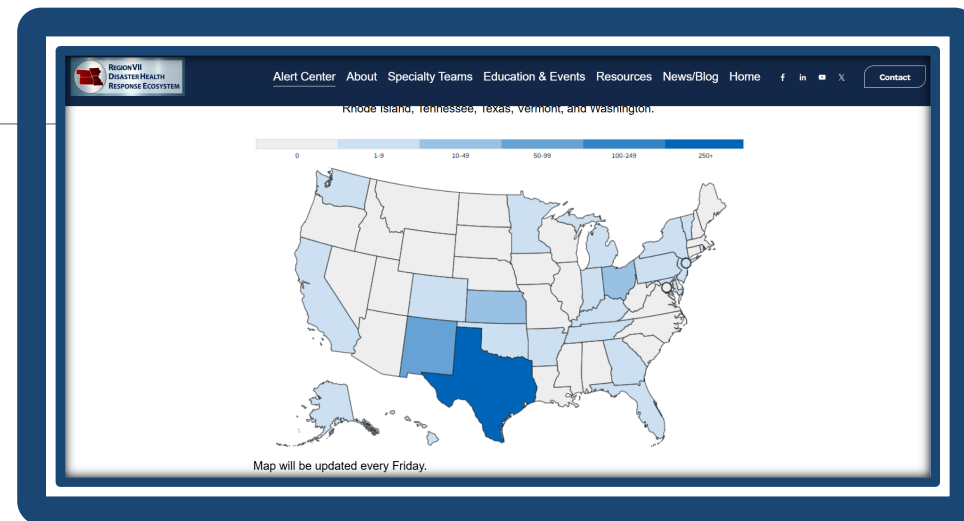
May 31, 2025

mNEXSPIKE becomes Moderna's third FDA-approved product

“The FDA's approval of **mNEXSPIKE** is based on results from a randomized, observer-blind, active-controlled Phase 3 clinical trial ([ClinicalTrials.gov](https://clinicaltrials.gov/ct2/show/study/NCT05815498) Identifier: NCT05815498), which enrolled approximately 11,400 participants aged 12 years and older. The primary efficacy objective in this study was to demonstrate the non-inferior vaccine efficacy against COVID-19 starting 14 days after mNEXSPIKE compared to that after the comparator vaccine, mRNA-1273 (Spikevax®), Moderna's original COVID-19 vaccine. Participants received either a **10 µg dose of mRNA-1283** or a **50 µg dose of mRNA-1273**. mRNA-1283 showed a **9.3% higher relative vaccine efficacy (rVE)** compared to mRNA-1273 in individuals aged 12 years and older, and in a descriptive sub-group analysis, a 13.5% higher rVE in adults aged 65 and older.”

2025 MEASLES OUTBREAK

2025 Measles Outbreak



Monitoring

MEASLES OUTBREAK (2025)

FOR QUESTIONS, PLEASE REACH OUT TO US AT R7DHRE@UNMC.EDU

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MEASLES OUTBREAK (2025)

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NATIONAL COMMUNICATION, DATA & GUIDANCE <ul style="list-style-type: none">• CDC – Measles (Rubeola) – Clinical Summary Flyer• CDC – Interim Infection Prevention and Control Recommendations for Measles in Healthcare Setting Infection Control• CDC – Health Alert Network (HAN)• CDC – Measles Cases and Outbreaks• CDC – Measles Vaccination (Rubeola)	HEALTHCARE RESOURCES <p>Vaccination Resources</p> <ul style="list-style-type: none">• CDC – Routine MMR Vaccination Recommendation: For Providers <p>EMS Resources</p> <ul style="list-style-type: none">• EMS provider measles quick fact sheet V3.0• Measles-Publication-UPDATED-newsletter• Measles EMS Fact Sheet (KDHE)
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HOT TOPICS / OTHER UPDATES

Links Shared Today

- Kansas Measles Dashboard
 - <https://www.kdhe.ks.gov/2314/Measles-Data>
- Colorado Measles Page
 - <https://cdphe.colorado.gov/diseases-a-to-z/measles/2025-case-information>
- Vaccine Ingredient Information
 - <https://www.chop.edu/vaccine-education-center/vaccine-safety/vaccine-ingredients/thimerosal>

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