

# ID ECHO

## COVID-19 Update and More

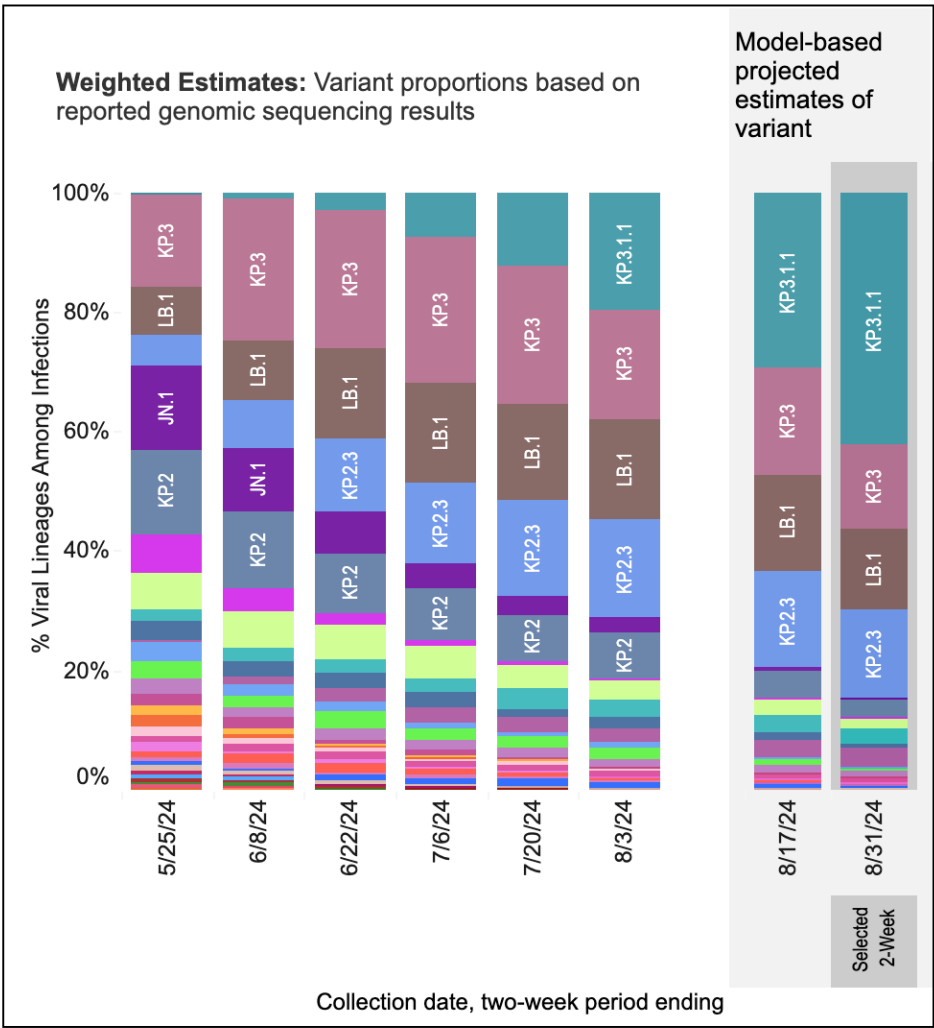
### The Month In Virology

September 19, 2024

Jorge Mera, MD



# Variant Proportions



		USA		
WHO label	Lineage #	%Total	95%PI	
Omicron	KP.3.1.1	42.2%	37.7-46.9%	
	KP.2.3	14.6%	12.4-17.0%	
	KP.3	14.2%	12.8-15.8%	
	LB.1	13.5%	11.3-16.0%	
	KP.2	3.1%	2.4-4.0%	
	LP.1	3.1%	2.0-4.7%	
	KP.1.1.3	2.6%	1.9-3.6%	
	KP.1.1	2.0%	1.5-2.6%	
	KS.1	1.0%	0.6-1.7%	
	KP.2.15	0.8%	0.4-1.4%	
	LF.3.1	0.7%	0.5-1.1%	
	JN.1.16.1	0.7%	0.5-0.9%	
	JN.1.18	0.5%	0.4-0.8%	
	KP.4.1	0.3%	0.1-0.7%	
	JN.1	0.2%	0.1-0.3%	
	JN.1.11.1	0.2%	0.1-0.3%	
	XDV.1	0.1%	0.0-0.2%	
	KW.1.1	0.1%	0.0-0.2%	
	JN.1.16	0.1%	0.0-0.1%	
	KP.1.2	0.0%	0.0-0.1%	
	JN.1.7	0.0%	0.0-0.1%	
	KQ.1	0.0%	0.0-0.0%	
	JN.1.13.1	0.0%	0.0-0.0%	
	JN.1.4.3	0.0%	0.0-0.0%	
	XDP	0.0%	0.0-0.0%	
	JN.1.8.1	0.0%	0.0-0.0%	

\*\* These data include Nowcast estimates, which are modeled projections that may differ from weighted estimates generated at later dates  
 # Enumerated lineages are US VOC and lineages circulating above 1% nationally in at least one 2-week period. "Other" represents the aggregation of lineages which are circulating <1% nationally during a 2-week periods displayed. While all lineages are tracked by CDC, those named lineages not enumerated in this graphic are aggregated with their parent lineages, based on Pango lineage definitions, describe in more detail here: <https://web.archive.org/web/20240116214031/https://www.pango.network/the-pango-nomenclature-system/statement-of-nomenclature-rules>.

## Nowcast Estimates for 8/18/2024 – 8/31/2024 by HHS Region

# COVID-19 Update for the United States

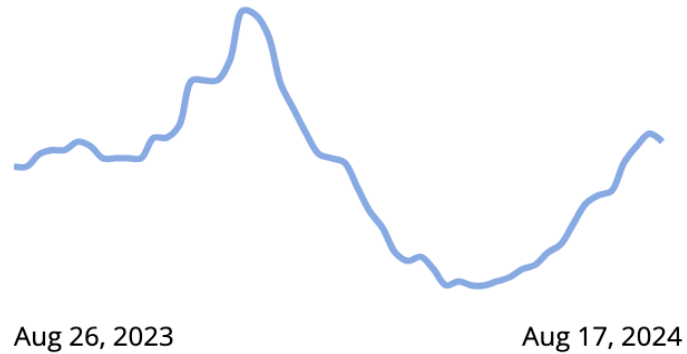
## Severity Indicators

### Hospitalizations >

Rate per 100,000 population

**4.6**

Week ending August 17, 2024  
Previous week 4.8

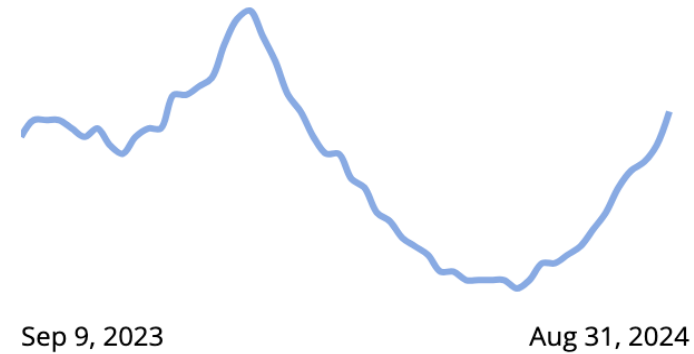


### Deaths >

% of All Deaths in U.S. Due to COVID-19

**2.6%**

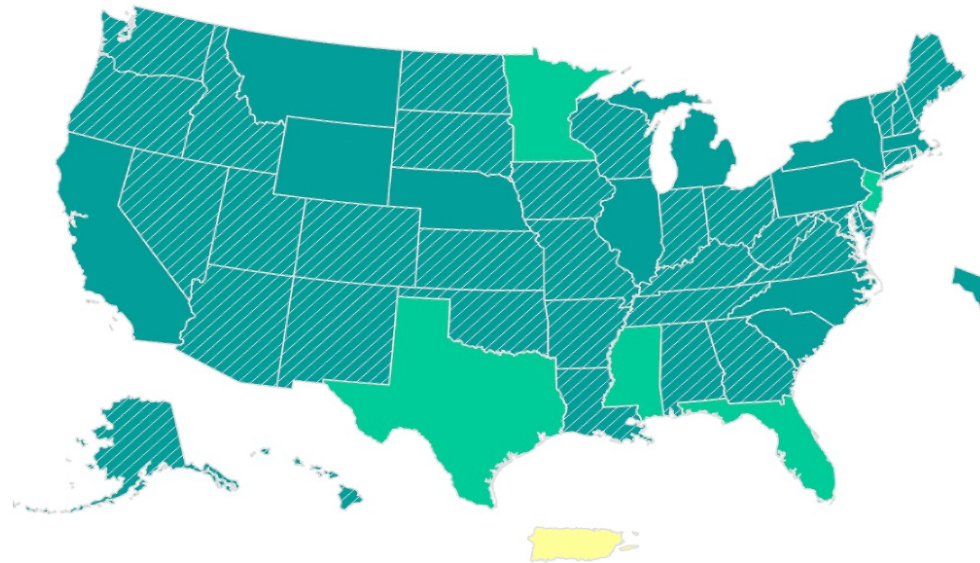
Week ending August 31, 2024  
Previous week 2.2%



CDC | Test Positivity data through: August 31, 2024; Emergency Department Visit data through: August 31, 2024; Hospitalization data through: August 17, 2024; Death data through: August 31, 2024.

# Percentage of Provisional Deaths Due to COVID-19 in the Past week, by State/Territory-United States

Week of August 15



Territories

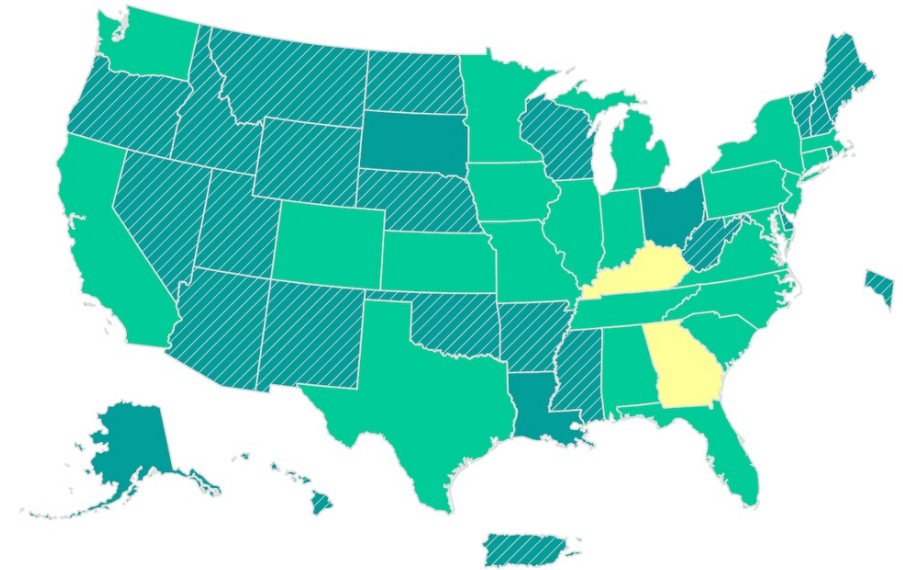


Percentage of deaths due to COVID-19 in past week



Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: U.S. Department of Health and Human Services, CDC; 2024, August 15. <https://covid.cdc.gov/covid-data-tracker>

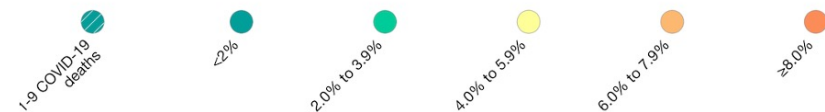
Week of September 12



Territories



Percentage of deaths due to COVID-19 in past week



Centers for Disease Control and Prevention. COVID Data Tracker. Atlanta, GA: U.S. Department of Health and Human Services, CDC; 2024, September 12. <https://covid.cdc.gov/covid-data-tracker>

# Use of COVID-19 Vaccines for Persons Aged $\geq 6$ Months: Recommendations of the Advisory Committee on Immunization Practices — United States, 2024–2025

## What is already known about this topic?

- The 2023–2024 COVID-19 vaccines provided protection against SARS-CoV-2 XBB-sublineage strains
- However, these strains are no longer predominant in the United States.

## What is added by this report?

- August 2024, the FDA approved and authorized the 2024–2025 COVID-19 vaccines by Moderna and Pfizer-BioNTech (Omicron KP.2 strain) and Novavax (Omicron JN.1 strain).

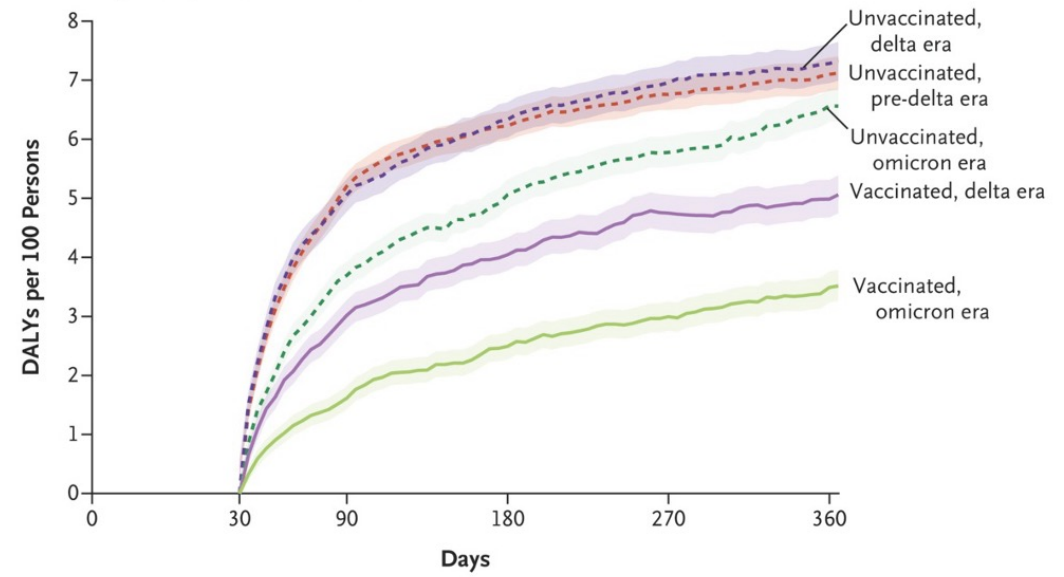
## What are the implications for public health practice?

- The 2024–2025 COVID-19 vaccines are recommended for all persons aged  $\geq 6$  months to provide additional protection against severe COVID-19–associated illness and death.

N Engl J Med, Volume 391(6):515-525, August 8, 2024

# Postacute Sequelae of SARS-CoV-2 Infection in the Pre-Delta, Delta, and Omicron Eras

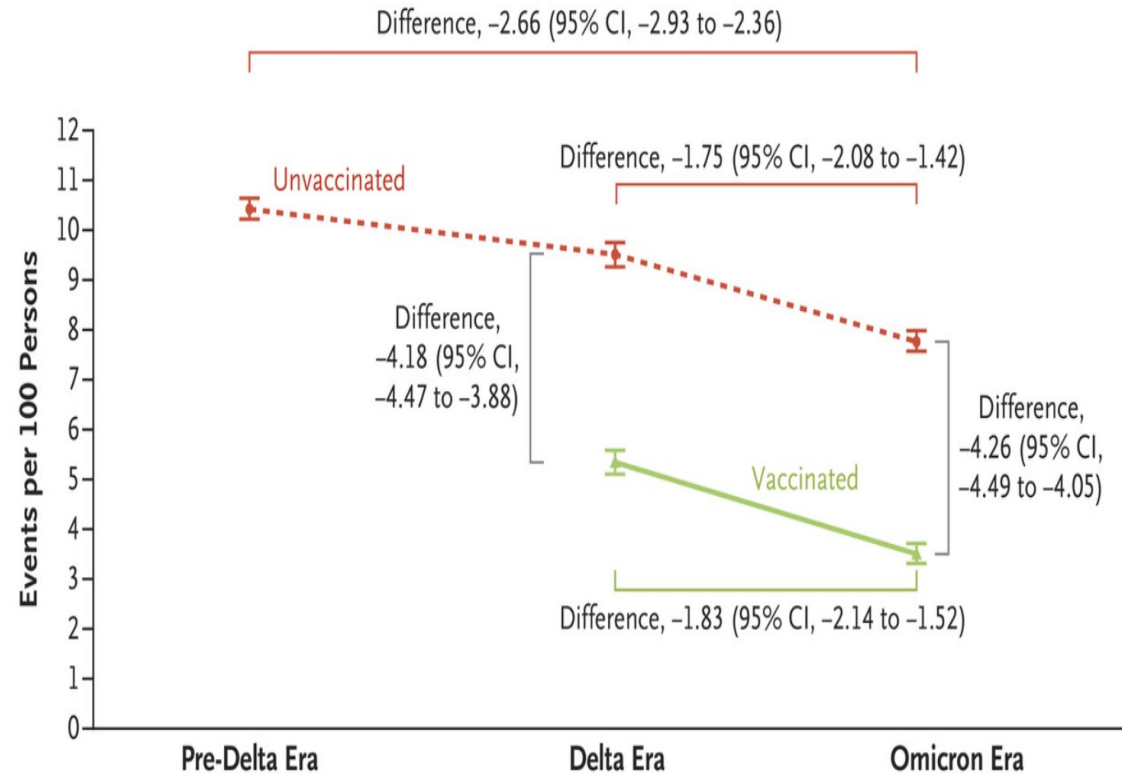
A Cumulative DALYs from 30 Days to 1 yr after Infection



No. at Risk		30	90	180	270	360
Unvaccinated, pre-delta era	206,011	162,104	123,095	98,591	81,481	
Unvaccinated, delta era	54,002	43,714	35,445	29,737	25,515	
Unvaccinated, omicron era	40,367	33,319	27,572	23,230	19,940	
Vaccinated, delta era	56,260	44,388	34,139	27,145	22,187	
Vaccinated, omicron era	84,943	68,624	54,602	44,416	36,765	

# Postacute Sequelae of SARS-CoV-2 Infection in the Pre-Delta, Delta, and Omicron Eras

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Events per 100 Persons

Unvaccinated

10.42 (95% CI, 10.22–10.64)

9.51 (95% CI, 9.26–9.75)

7.76 (95% CI, 7.57–7.98)

Vaccinated

5.34 (95% CI, 5.10–5.58)

3.50 (95% CI, 3.31–3.71)

In this study, the risk of postacute sequelae decreased over time but remained substantial even among vaccinated persons infected in the omicron era

# Cluster of Influenza A(H5) Cases Associated with Poultry Exposure at Two Facilities — Colorado, July 2024

- **What is added by this report?**
  - The first known cluster of human influenza A(H5N1) cases in the United States associated with poultry exposure
  - 109 (16.4%) of 663 workers performing poultry depopulation reported symptoms and received testing, and nine (8.3%) of the workers who received testing for influenza A(H5N1) received a positive result.
  - All nine cases were associated with mild illness, with conjunctivitis as the most common symptom.



# Oropouche Virus Disease (OVD) Among U.S. Travelers — United States, 2024

- **What is already known about this topic?**
  - Oropouche virus is an emerging arthropod-borne virus in the Americas.
  - Reports of outbreaks in areas without previous endemic transmission, fatal cases, and vertical transmission with adverse pregnancy outcomes have raised concerns about human health risks.
- **What is added by this report?**
  - As of August 16, 2024, 21 OVD cases among U.S. travelers returning from Cuba reported.
  - Most patients had self-limited illness.

# Oropouche Virus Disease (OVD) Among U.S. Travelers — United States, 2024

- **What are the implications for public health practice?**
  - Clinicians and public health jurisdictions should be aware of the occurrence of OVD in U.S. travelers and request testing for suspected cases.
  - Travelers should prevent insect bites when traveling
  - Pregnant persons should consider deferring travel to areas experiencing outbreaks of OVD

A 3D rendering of a field of dark grey question marks. In the center, one question mark is highlighted in a bright yellow color. The word "Questions?" is written in white, sans-serif font across the yellow question mark.

Questions?