



**SHEA**

The Society for Healthcare  
Epidemiology of America

**SAFE HEALTHCARE FOR ALL**

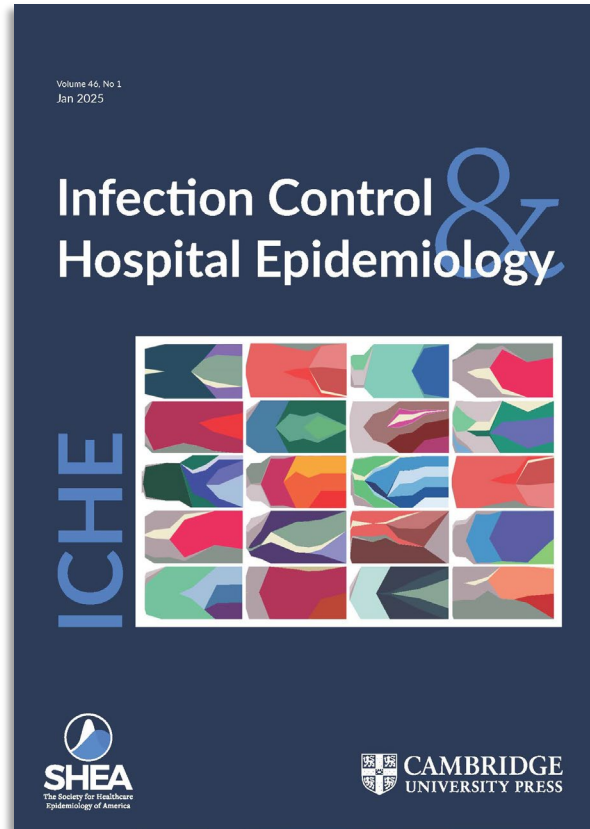
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# ICHE Journal



*Infection Control & Hospital Epidemiology* publishes scientifically authoritative, clinically applicable, peer-reviewed research on control and evaluation of the transmission of pathogens in healthcare institutions and on the use of epidemiological principles and methods to evaluate and improve the delivery of care. Major topics covered include infection control practices, surveillance, antimicrobial stewardship, cost-benefit analyses, resource use, occupational health, and regulatory issues.

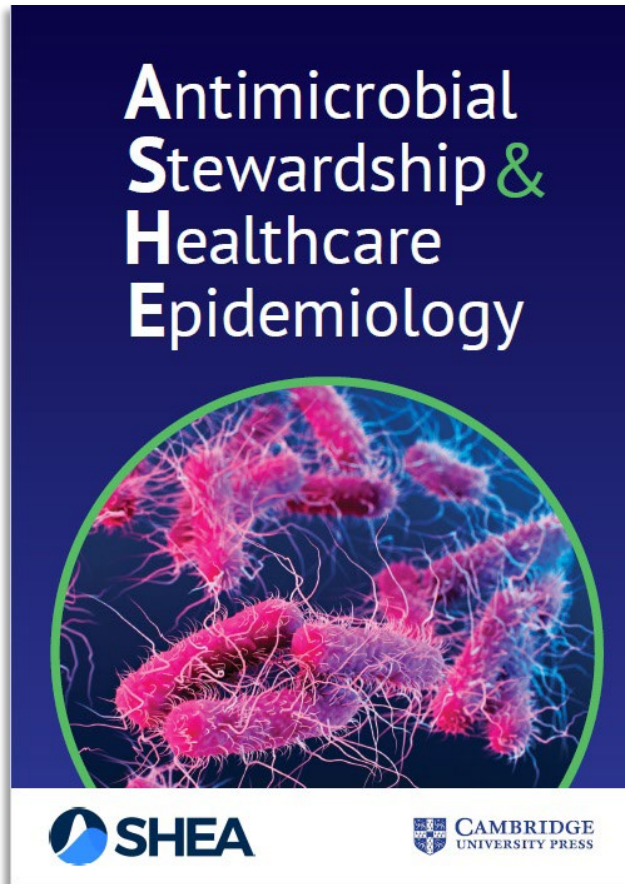
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# ASHE JOURNAL



**High quality articles** across the full spectrum of antimicrobial stewardship and healthcare epidemiology.

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# TUNE IN TO SHEA'S PODCASTS



AVAILABLE ON:



Online ID Fellows Course

# Primer on Healthcare Epidemiology, Infection Control & Antimicrobial Stewardship



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LEARN MORE



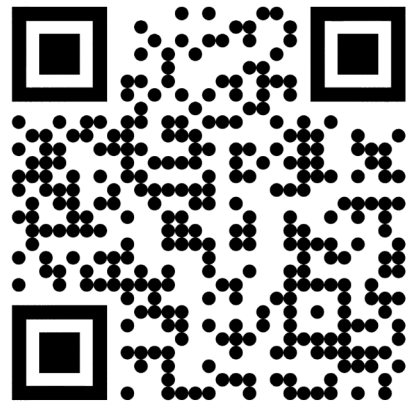




# LEARNINGCE

SHEA Online Education Center

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## ELEARNING COURSES

**NEW!** [Penicillin Allergy Management: Removing Barriers to Optimal Antibiotic Prescribing](#)

This course highlights the importance of penicillin allergy evaluation in improving antibiotic prescribing. Learn to take allergy histories, assess risk, perform testing, and safely remove low-risk labels.

**NEW!** [Healthcare Leadership Communication: Navigating Policy, Media, & Social Influence](#)

This course equips healthcare professionals with key skills in leadership, media communication, policy influence, and social media strategies to advance their careers and amplify their impact.

## ON-DEMAND WEBINAR

[Educating Medical Students on Antimicrobial Stewardship](#)

This program prepares future medical professionals to tackle antimicrobial resistance with effective stewardship tools and strategies.

## LIVE WEBINAR

[Patient & Family Education](#)

*Register to attend on Feb 27 @ 12:30 - 1:30 pm ET*  
This program aims to educate the healthcare personnel who provide patient or staff education on principles, needs assessment, and methods for effective education.



# SHEA SPRING

APRIL 27-30, 2025

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CHAMPIONSGATE, FLORIDA

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SHEA Webinar

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***Town Hall 2025***

# Housekeeping



- Technical difficulties? Visit: <https://support.zoom.us>
- Webinar recording, PowerPoint presentation, and references available on [learningce.shea-online.org](https://learningce.shea-online.org)
- Streaming Live on SHEA's Facebook page
- Zoom Polling, Q&A & Chat



SAFE HEALTHCARE FOR ALL

# February Town Hall Panelists:



**Dr. Marci Drees**  
*ChristianaCare*



**Dr. Trish Perl**  
*UT Southwestern  
Medical Center*



**Dr. Andi Shane**  
*Emory University School of  
Medicine*

**POLL:** *Which disease threat do you think poses the greatest challenge today?*

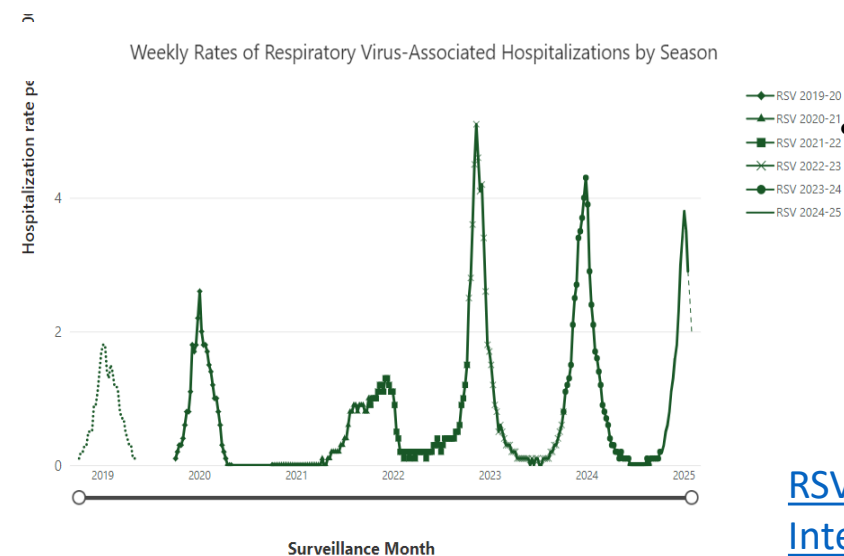
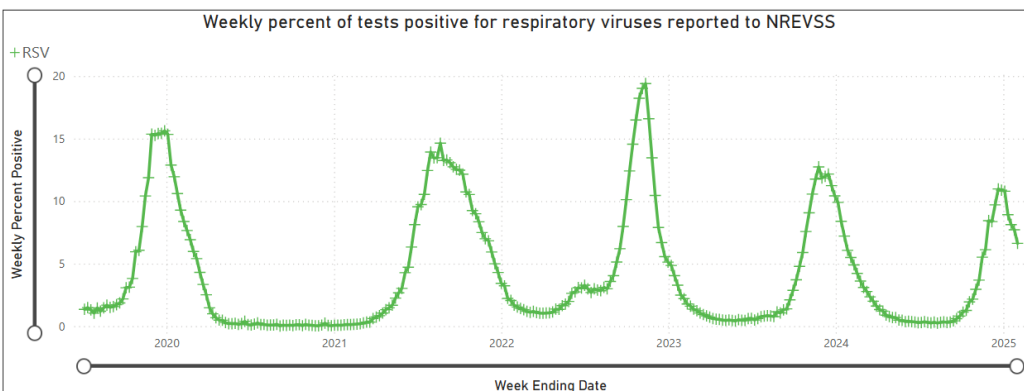
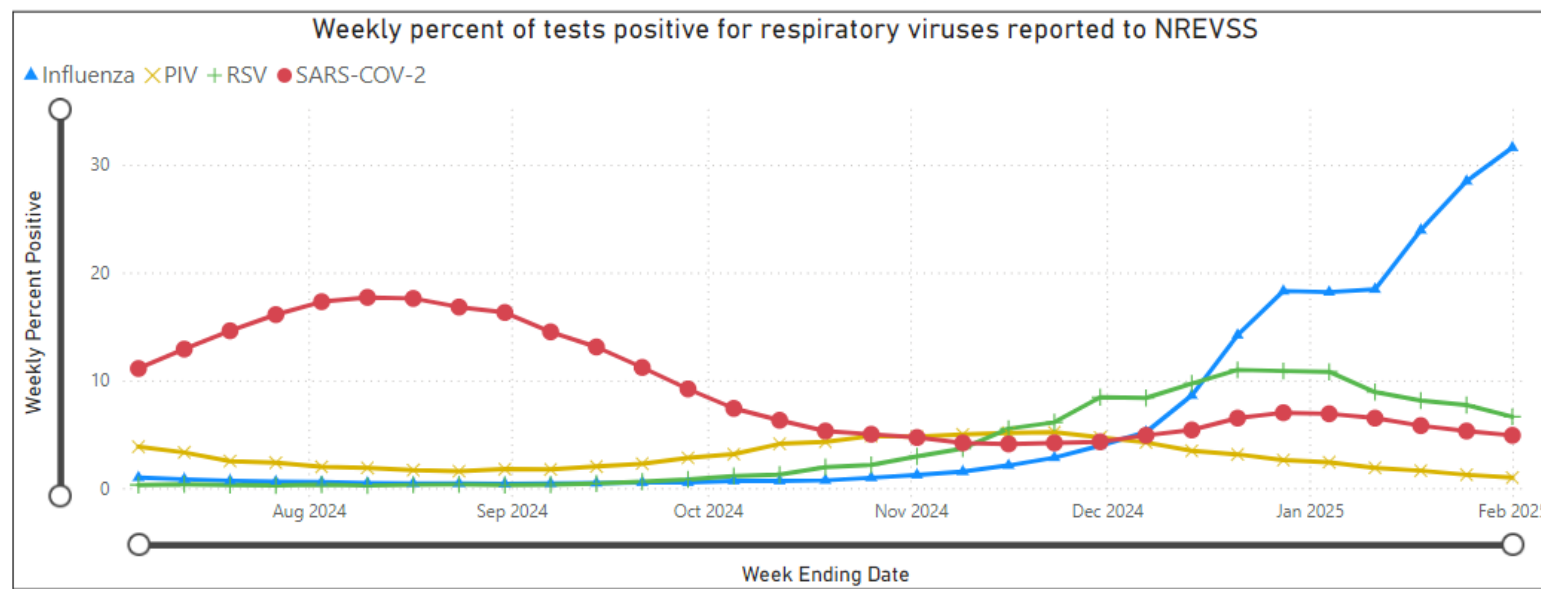
- a. Drug-resistant tuberculosis (TB)
- b. Mpox Clade 1 resurgence
- c. Marburg/Ebola outbreaks
- d. Measles outbreaks in new regions
- e. Antimicrobial resistance
- f. Other (share your thoughts in the chat!)



# General Literature Review

- Nickel KB, et al. *JAMA Network Open*, Intersection of Race and Rurality With Health Care-Associated Infection and Subsequent Outcomes
- Turner NA, et al. *Clinical Infectious Diseases*, Natural History of *Clostridioides difficile*–Related Disease Progression in the 2-Step Testing Era
- Fabre V, et al. *JAMA Network Open*, Blood Culture Use in Medical and Surgical Intensive Care Units and Wards
- Laracy JC, et al. *Clin Infect Dis*, Improving UTI Diagnostics in Oncology: Reliability of Reflex Urine Culture in Immunosuppressed Neutropenic and Non-neutropenic Cancer Patients
- Jones N, et al. *JAMA Network Open*, Use of Machine Learning to Assess the Management of Uncomplicated Urinary Tract Infection
- Zulli A, et al. *Environ Sci Technol*, Utilizing Internet Search Trends and Wastewater Surveillance to Identify Infectious Disease Outbreaks in Communities.
- Wang Y, et al. *Antimicrob Resist Infect Control*, Global trends of ceftazidime-avibactam resistance in gram-negative bacteria: systematic review and meta-analysis.
- Bajema KL, et al., *JAMA Internal Medicine*. Severity and Long-Term Mortality of COVID-19, Influenza, and Respiratory Syncytial Virus.

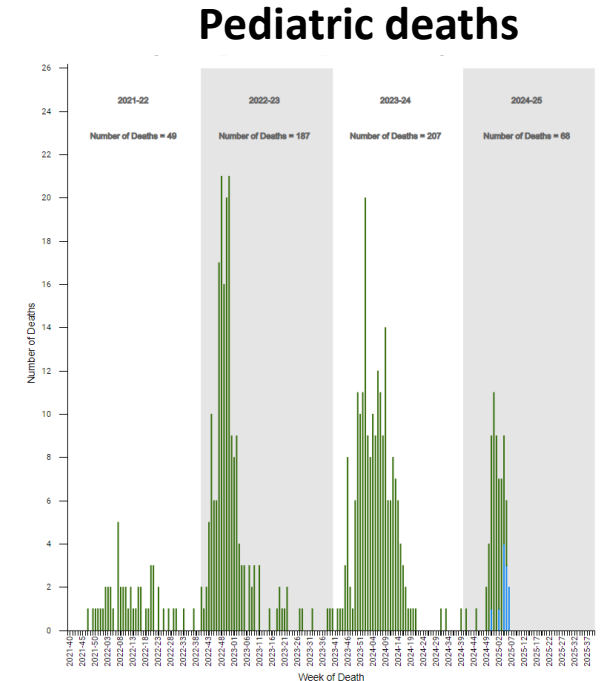
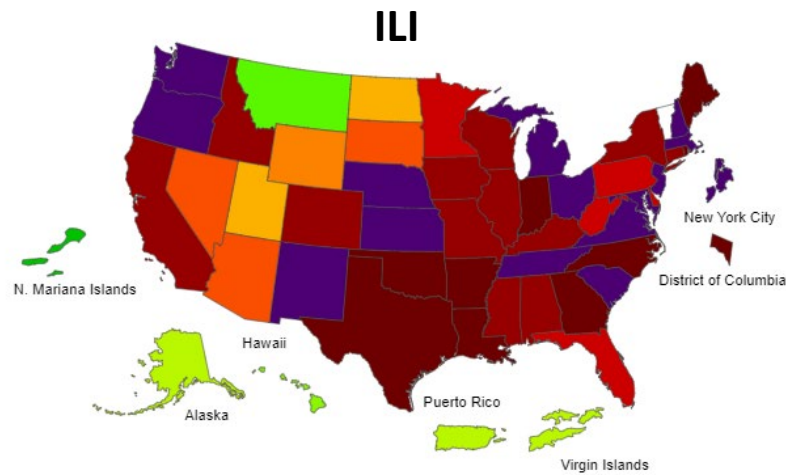
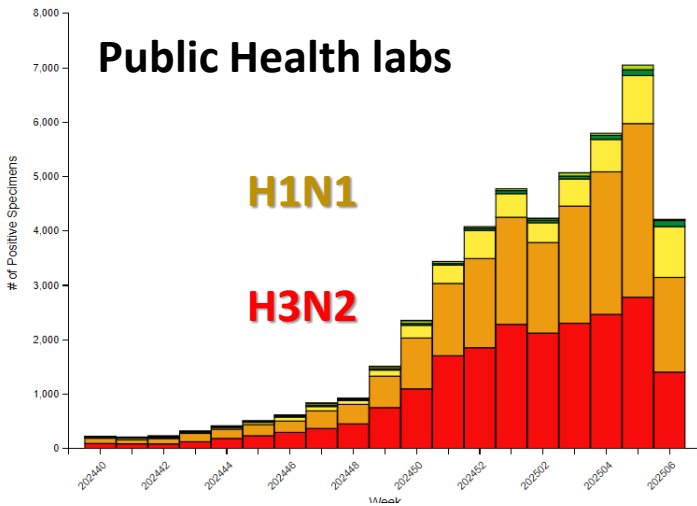
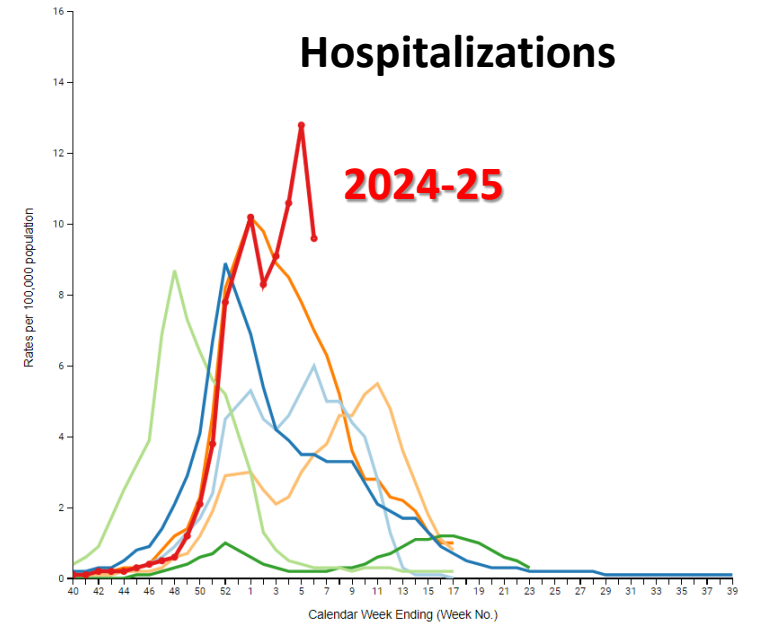
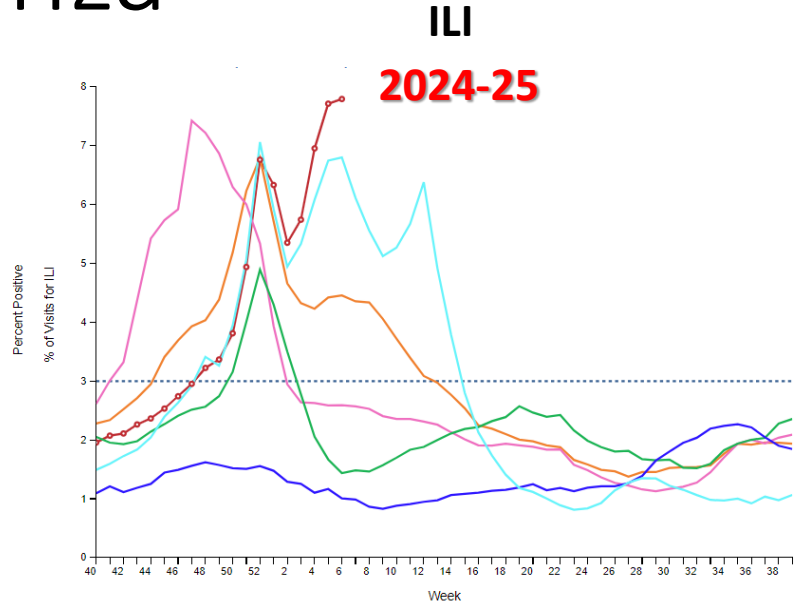
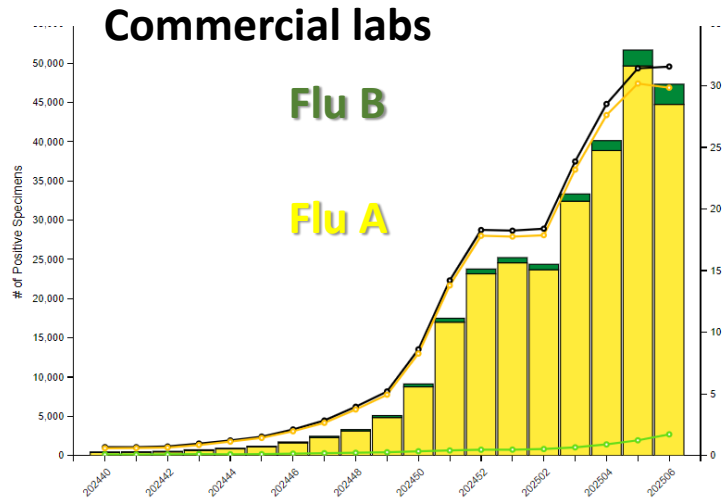
# 2024-25 Viral Respiratory Season: RSV



## Recent Literature:

- Jacobsen KB, et al. *JAMA Network Open*, Uptake of Maternal RSV Vaccination and Infant Nirsevimab Among Infants Born October 2023 to March 2024
- Walsh EE, et al. *Clin Infect Dis*, Efficacy, Immunogenicity, and Safety of the Bivalent RSV Prefusion F (rsvpref) Vaccine in Older Adults Over 2 RSV Seasons
- Bajema KL, et al. *Lancet Inf Dis*, Respiratory syncytial virus vaccine effectiveness among US veterans, September, 2023 to March, 2024: a target trial emulation study

# Seasonal Influenza



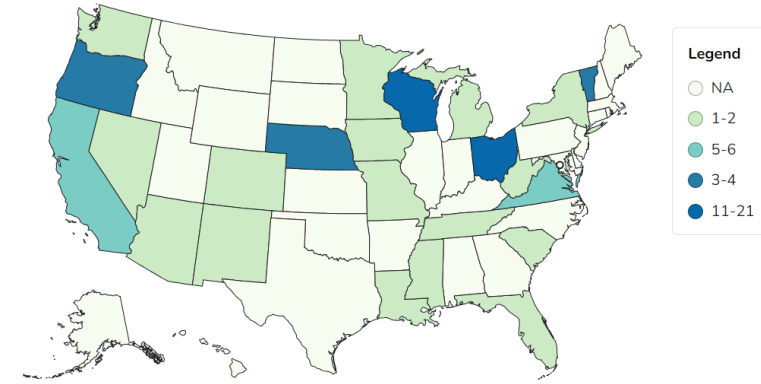
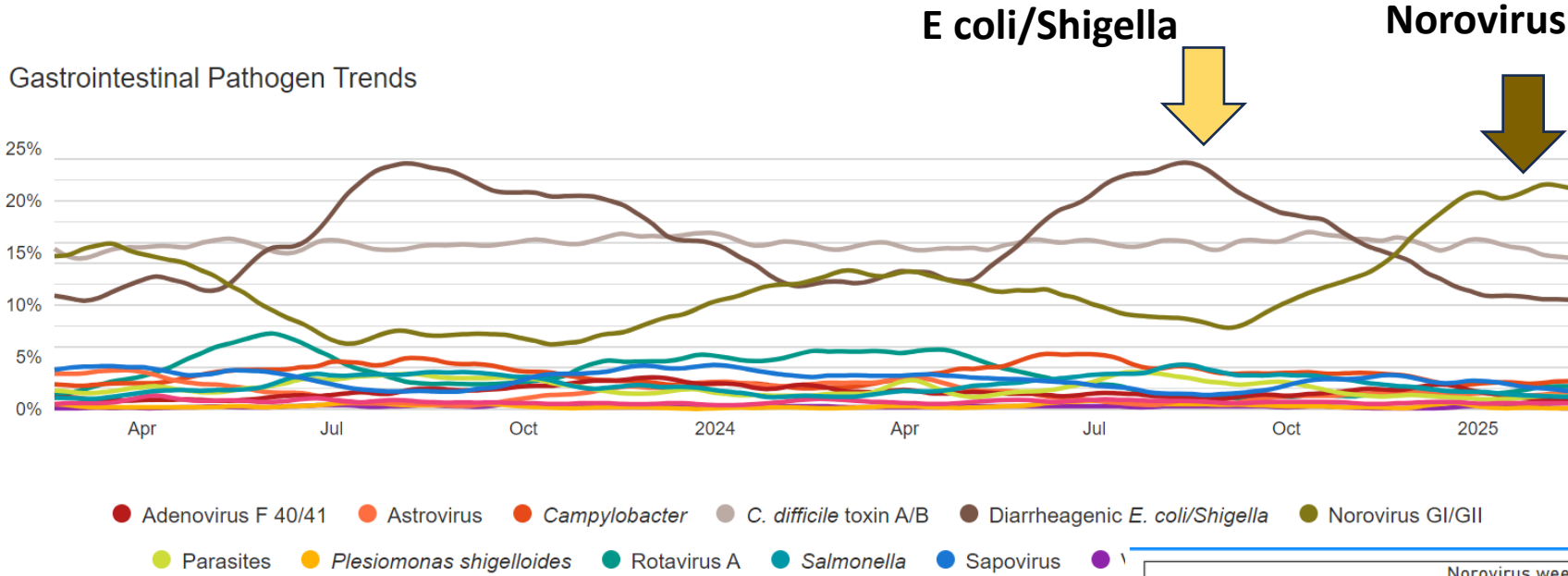
[FluView](#) | [FluView](#) | [CDC](#)

Shrestha NK, et al. medRxiv (preprint). Interim Effectiveness of the Influenza Vaccine for the 2024-2025 Respiratory Viral Season.

# Norovirus

Confirmed norovirus outbreaks submitted by state

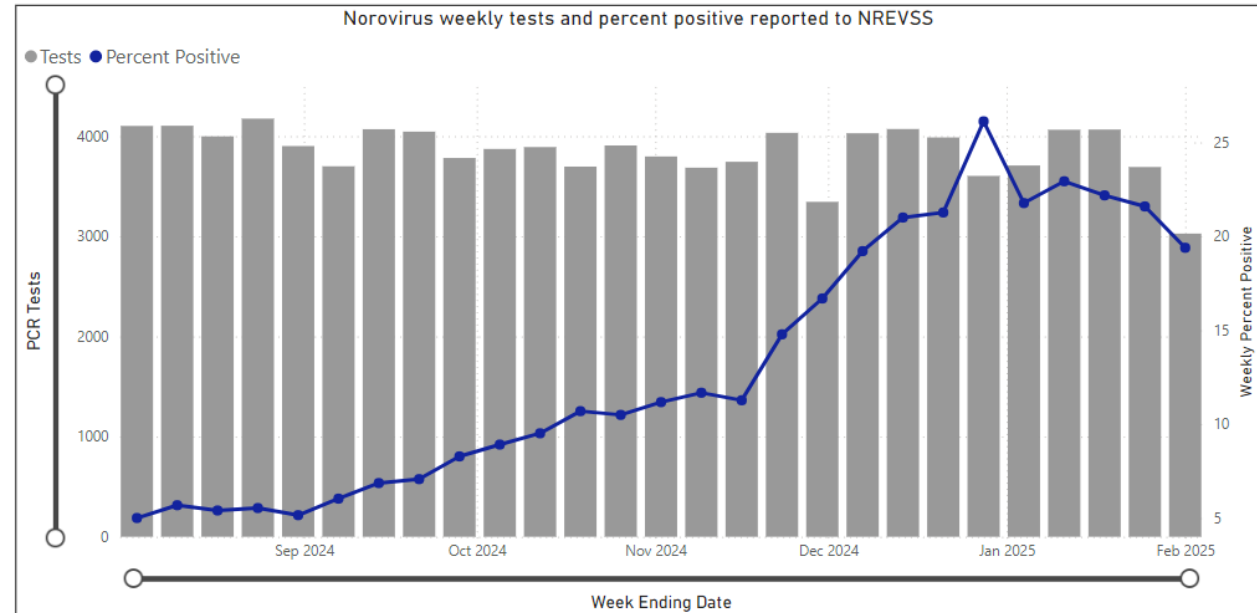
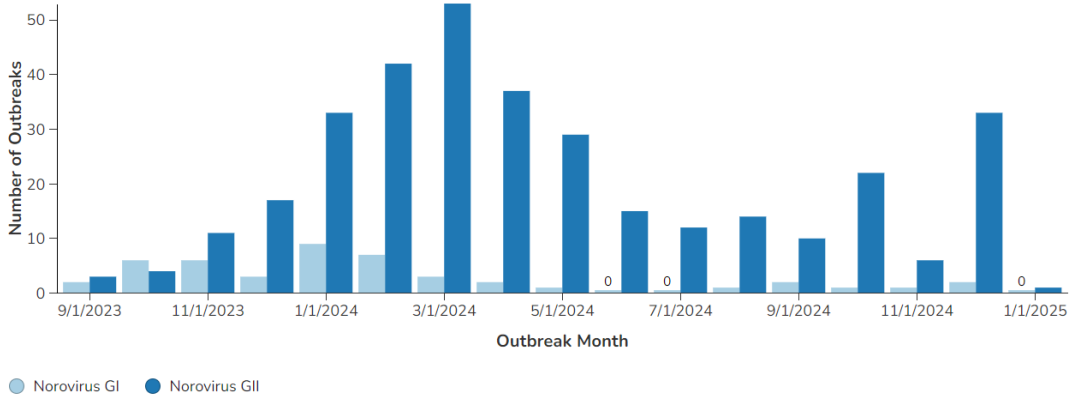
September 1, 2024 – December 31, 2024



[BIOFIRE® Syndromic Trends](#)  
[Interactive Dashboard](#) | [NREVSS](#) | [CDC CaliciNet Data](#) | [Norovirus](#) | [CDC](#)

## Confirmed norovirus outbreaks submitted by genogroup

September 1, 2023 – December 31, 2024





# H5N1 Update

## Outbreak Situation Last 30 Days

**141 Confirmed Flocks**

Flocks tested and confirmed having HPAI

Commercial Flocks

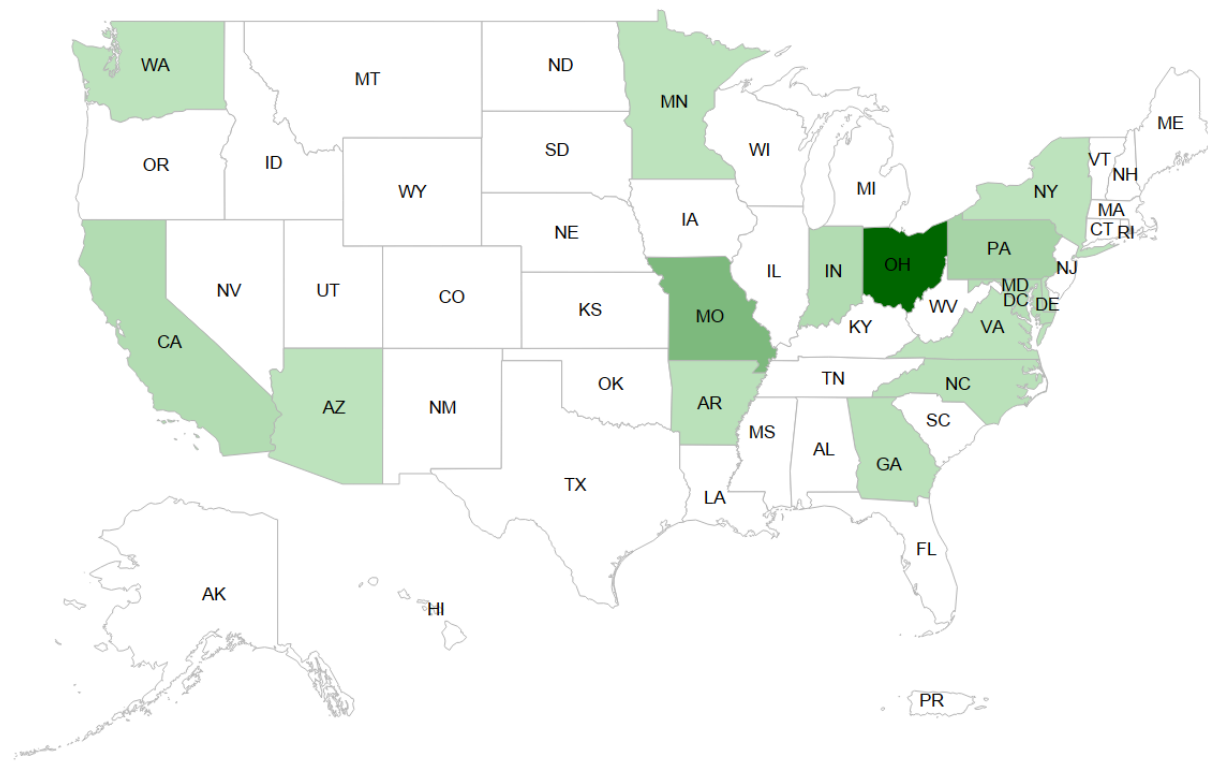
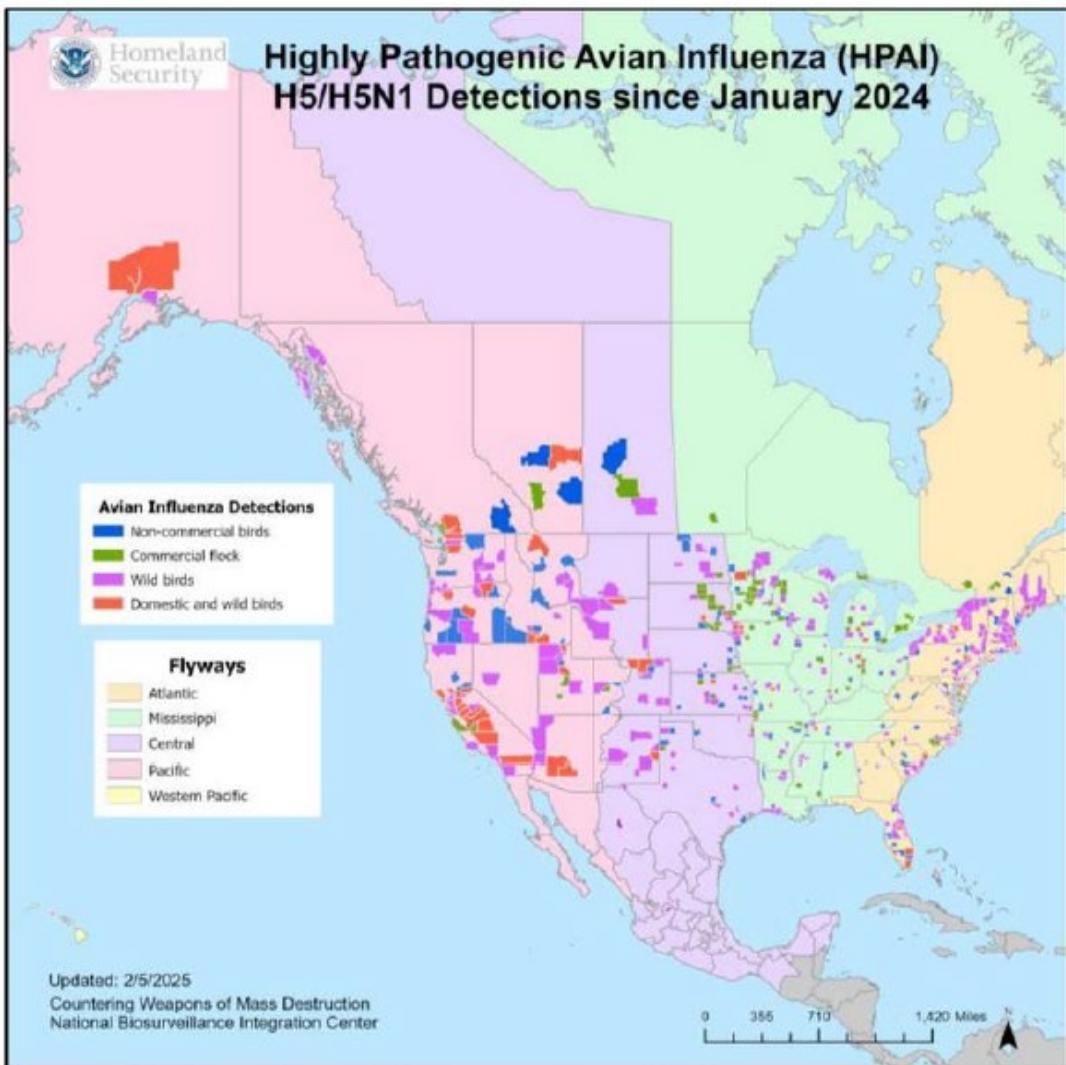
**99**

Backyard Flocks

**47**

Birds Affected\*

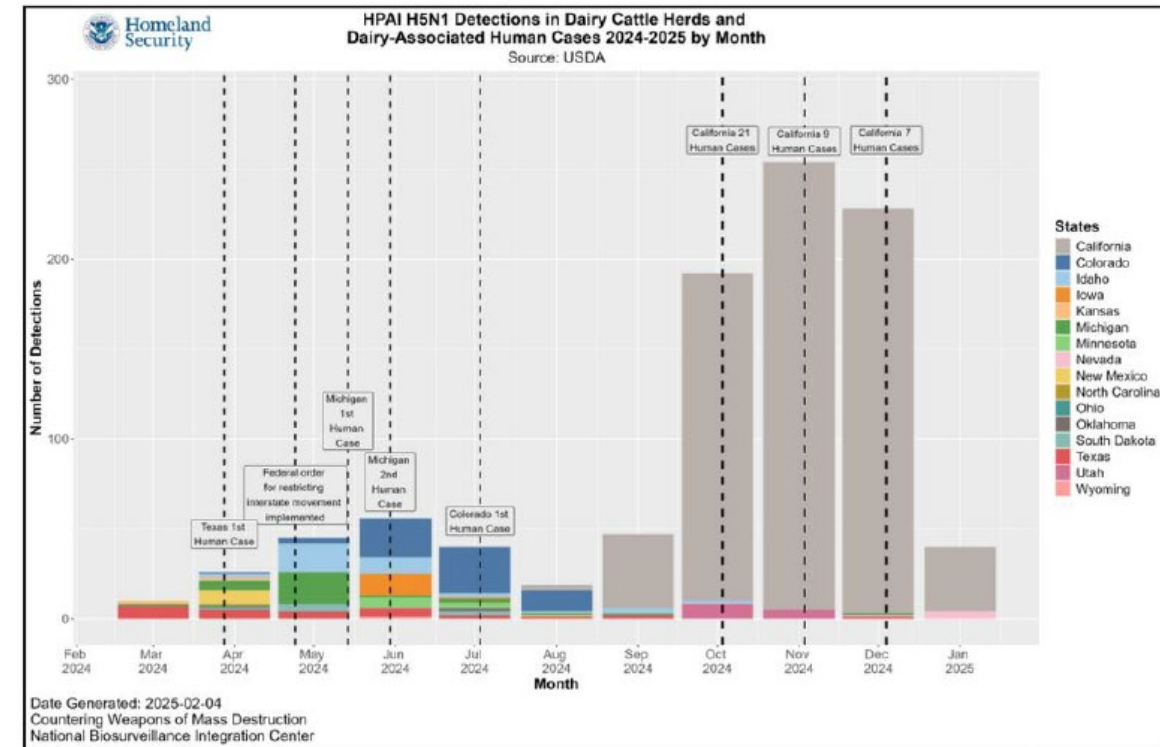
**20.51M**



# H5N1 – Human/Dairy Cases

- US Dairy herds: 972 cases in 17 states (only CA & NV in past 30 d)
- Current U.S. human cases: 68, with 1 death
- 1/27/25: H5N9 (reassorted strain from H5N1 & H7H9, not seen before in U.S.) found on commercial duck farm in CA
- 2/5/25: USDA announced that genotype D1.1 identified in dairy milk (NV); previous dairy-related cases all B3.13
- 2/7/25: NY Gov. Hochul announced temporary closure of live bird markets after H5N1 found in Queens, the Bronx and Brooklyn
- 2/13/25: *MMWR* reported 3 seropositive bovine veterinarians without symptoms & no known exposures to infected cattle (1 had contact with H5N1-infected poultry)

## H5N1 Detections in Dairy Cattle Herds & Dairy-associated Human Cases, by Month

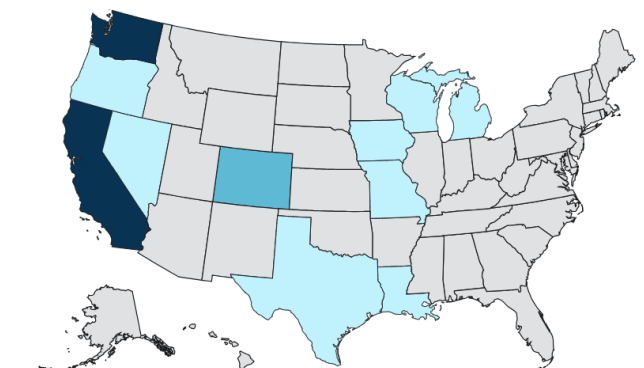


National Total Cases: 68

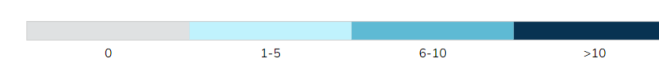
Cases	Exposure Source
41	Dairy Herds (Cattle)*
23	Poultry Farms and Culling Operations*
1	Other Animal Exposure†
3	Exposure Source Unknown‡

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

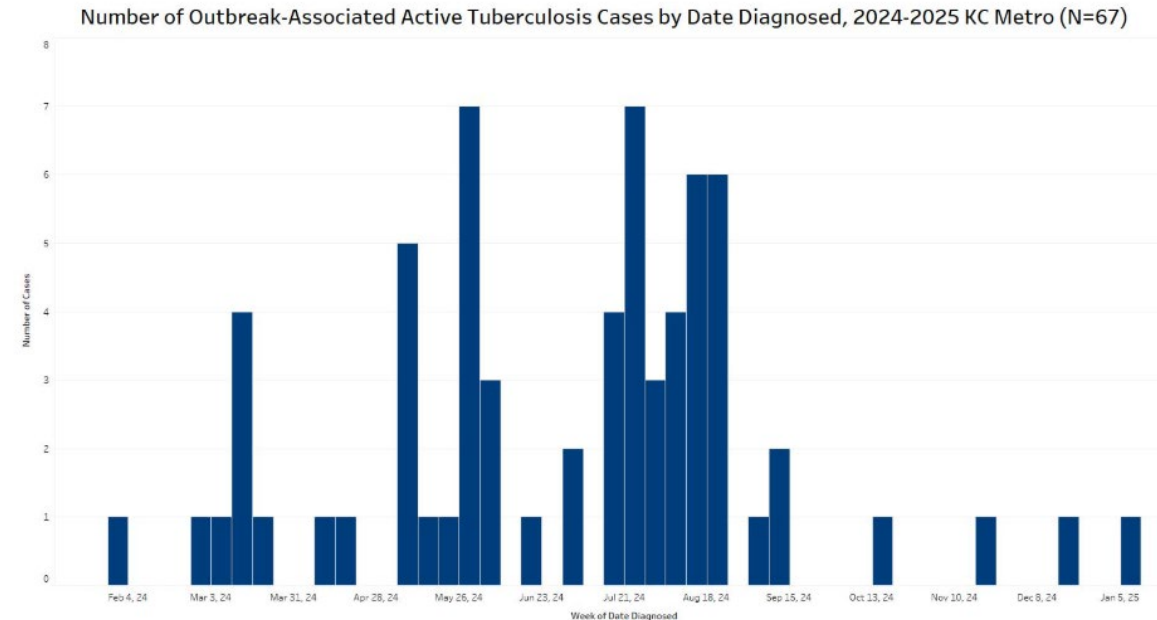
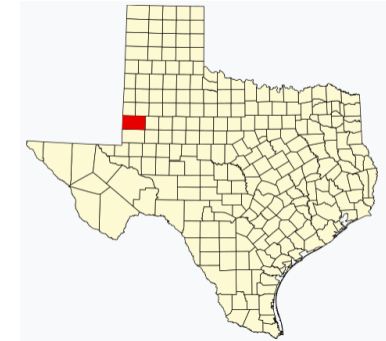


Total cases



# Other Outbreaks – U.S.

- Measles in U.S. (as of 2/6/25): 14 cases in 5 jurisdictions (AK, GA, NYC, RI, TX)
  - 2 outbreaks (3 or more cases); 64% (9/14) outbreak-related
  - 100% unvaccinated or unknown
  - GA: 1 case & 2 household contacts
  - TX (as of 2/14/25): 48 cases, 13 hospitalized; started in Gaines Co. (but now 4 affected)
  - 2/11/25: NM reported 1<sup>st</sup> case in unvaccinated teen in Lea County (borders Gaines Co) but no known travel
  - 2/14/25: NJ DOH reported 1 case in unvaccinated person following international travel
- TB: 2 counties in Kansas city metro area (as of 2/7/25):
  - 67 confirmed cases since Jan 2024
  - 79 confirmed latent TB cases



# Mpox Clade 1b

- Africa: Outbreak since 2024 with 21 countries affected (total 21K cases, 70 deaths) – DRC (14,530 cases), Burundi, Uganda
- Travel-associated cases reported in Sweden, Germany, Belgium, France, Ireland (13 in EU countries), also UK, Thailand, Oman, Canada, China, UAE; Pakistan & India only with travel to UAE
  - UK reported several cases among household contacts
- US cases (4) all travel-associated, no further spread identified
  - CA 11/24, GA 1/14/25, NH 2/7/25, NY 2/12/25
- Recent literature:
  - Ndembi N et al. *NEJM*. Evolving Epidemiology of Mpox in Africa in 2024
  - Brosius I, et al. *Lancet*. Epidemiological and clinical features of mpox during the clade 1b outbreak in South Kivu, Democratic Republic of the Congo: a prospective cohort study
  - Masirika LM, et al. *Nature Med*. Epidemiological and genomic evolution of the ongoing outbreak of clade 1b mpox virus in the eastern Democratic Republic of the Congo.
  - Pesonel E, et al. *Clin Infect Dis*. Clinical Characterization and Outcomes of Human Clade 1b Mpox Virus Disease: A European Multicenter Mpox Observational Cohort Study (MOSAIC)
  - Postal J, et al. *Lancet Inf Dis*. Antiviral activity of tecovirimat against monkeypox virus clades 1a, 1b, 2a, and 2b.
  - Levy V et al. *MMWR* 2/13/25. First Clade 1b Monkeypox Virus Infection Reported in the Americas — California, November 2024



# Viral Hemorrhagic Fever Outbreaks

- Sudan virus disease (SVD) – Uganda
  - 1/30/25: Uganda declared outbreak of SVD in Kampala (first since 2022)
  - 2/3/25: WHO announced 1<sup>st</sup> Ebola vaccination trial vs. disease caused by Sudan virus; commenced 4 days after announcement of outbreak
  - 2/4/25: NBIC changed event status to “worsening”
  - As of 2/6/25: 7 cases & 1 death confirmed; CDC HAN issued
- Marburg virus disease (MVD) – Tanzania
  - 1/10/25: WHO received reports of 6 suspected MVD cases in Tanzania
  - 1/20/25: Tanzania declared MVD outbreak in Kajera region; 1 confirmed case; 25 suspected cases tested negative
  - 1/25/25: 2 confirmed & 8 probable cases, including at least 9 deaths:
  - 2/4/25: NBIC changed event status to “improving”
  - 2/14/25: WHO reported 2 confirmed, 8 probable cases, 10 deaths (100%); all 281 contacts completed 21-d follow-up

# Arboviral Disease Outbreaks

- Dengue – global
  - >100K cases and >10 deaths from 24 countries/territories so far in 2025
  - 2024: >14 million cases & 10,000 deaths (primarily **Brazil**, Argentina, Mexico, Colombia, Paraguay)
  - 2/7/25: PAHO published epi alert due to increased circulation of DENV-3 in Americas
- Chikungunya – global
  - 2/14/25: La Réunion, France, reported that since Aug 2024, when 1<sup>st</sup> autochthonous case in 10 yr reported, 783 confirmed autochthonous cases
  - >5000 cases reported in Brazil (5098), Paraguay (11) & Columbia (4) so far in 2025
  - >600,000 cases reported in 2024 (>400K in Brazil, nearly 200K cases in India)
- Oropouche virus – Americas
  - 2/11/25: PAHO announced 3765 confirmed autochthonous cases so far in 2025 (mostly Brazil)
    - 2024: >16K cases (including 4 deaths & 5 confirmed cases of vertical transmission) in Brazil (13K), Cuba (600), Peru (1200), US (108 imported cases)

# Resources for Outbreak/Global Health Updates

- CIDRAP newsletter ([www.cidrap.umn.edu](http://www.cidrap.umn.edu))
- European CDC – [weekly communicable disease threats reports](#)
- Your Local Epidemiologist
- State/local health depts & Health Alert Networks (HANs)
- PAHO – Pan American Health Organization
- National Biosurveillance Integration Center (part of Homeland Security) – via state/local DOH
- [WHO Disease Outbreak News](#)

- Bajema KL, et al., *JAMA Internal Medicine*. doi:10.1001/jamainternmed.2024.7452. Published online 1/27/25.
- Bajema KL, *Lancet Inf Dis*, doi: 10.1016/S1473-3099(24)00796-5. Published online 1/20/25
- Brosius I, et al. *Lancet*. doi.org/10.1016/S0140-6736(25)00047-9. Published online 1/29/25.
- Fabre V, et al. *JAMA Network Open*. 2025;8(1):e2454738. doi:10.1001/jamanetworkopen.2024.54738
- Faye M, et al. *Lancet Inf Dis*. [https://doi.org/10.1016/S1473-3099\(25\)00017-9](https://doi.org/10.1016/S1473-3099(25)00017-9). Published online 1/20/25.
- Jacobsen KB, et al. *JAMA Network Open*, 2025;8(1):e2453696. doi:10.1001/jamanetworkopen.2024.53696. Published online 1/8/25.
- Laracy JC, et al. *Clin Infect Dis* DOI: 10.1093/cid/ciaf018. Accepted manuscript.
- Masirika LM, et al. *Nature Med*. doi: 10.1038/s41591-025-03582-1. Accepted manuscript, published online 2/11/25
- Ndembi N et al. *NEJM*. doi: 10.1056/NEJMoa2411368. Published 1/29/25.
- Nickel KB, et al. *JAMA Network Open*. 2025;8(2):e2453993. doi:10.1001/jamanetworkopen.2024.53993
- Pesonel E, et al. *Clin Infect Dis*. doi:10.1093/cid/ciae657. Published online 1/3/25.
- Postal J, et al. *Lancet Infect Dis*. [https://doi.org/10.1016/S14733099\(25\)00014-3](https://doi.org/10.1016/S14733099(25)00014-3). Published online 1/23/25.
- Turner NA, et al. *Clin Infect Dis* 2025. <https://doi.org/10.1093/cid/ciaf020>. Published online 1/20/25.
- Walsh EE, et al. *Clin Infect Dis*, 2025. DOI: 10.1093/cid/ciaf061. Accepted manuscript.
- Wang Y, et al. *Antimicrob Resist Infect Control*. 2025 Feb 11;14(1):10. doi: 10.1186/s13756-025-01518-5.
- Zulli A, et al. *Environ Sci Technol* 2025 Feb 11. doi: 10.1021/acs.est.4c05723. Online ahead of print.
- [https://www.paho.org/sites/default/files/2025-02/2025-feb-10-epi-update-oropoucheeng-final\\_0.pdf](https://www.paho.org/sites/default/files/2025-02/2025-feb-10-epi-update-oropoucheeng-final_0.pdf)
- <https://www.aphis.usda.gov/sites/default/files/dairy-cattle-hpai-tech-brief.pdf>
- [Health Alert Network \(HAN\) - 00521 | Ebola Outbreak Caused by Sudan virus in Uganda](#)