



Earthquakes in the New Madrid Seismic Zone – When the Mississippi River Ran Backward!

Jeff Briggs, Earthquake Program Manager
Missouri State Emergency Management Agency

November 29, 2023 | 10:30-11:30 AM CST | Zoom

OBJECTIVES

- Discuss three steps that should be initiated from an emergency action plan when shaking from an earthquake occurs.
- Articulate the necessary plans and procedures required for developing a successful Emergency Action Plan for earthquake preparedness.
- Analyze the likelihood of shaking and damage for your specific location to help determine specific needs or steps to take to ensure your area is ready and equipped.

DESCRIPTION

On December 16, 1811, a magnitude 7.5 earthquake so powerful that it caused the Mississippi to flow backward struck residents in and around the New Madrid Seismic Zone in Southeast Missouri. Today, the New Madrid Seismic Zone is the largest active seismic zone in the U.S. east of the Rocky Mountains. During this webinar, participants will learn the history and impacts of the New Madrid Seismic Zone, discuss how to prepare for the possibility of an earthquake within the New Madrid Seismic Zone, and learn what to do when the shaking starts.

TARGET AUDIENCE

This webinar is intended for physicians, nurses, first responders, healthcare coalitions, public health, emergency managers, federal and state partners and other professionals throughout Region VII (IA, KS, MO, and NE) and beyond.

[**REGISTER HERE**](#)

CONTINUING EDUCATION



In support of improving patient care, University of Nebraska Medical Center is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

This activity is designed for: physicians, nurses, and first responders. Continuing education credits will be provided.

Nebraska Updates

TUESDAY 11/28/2023

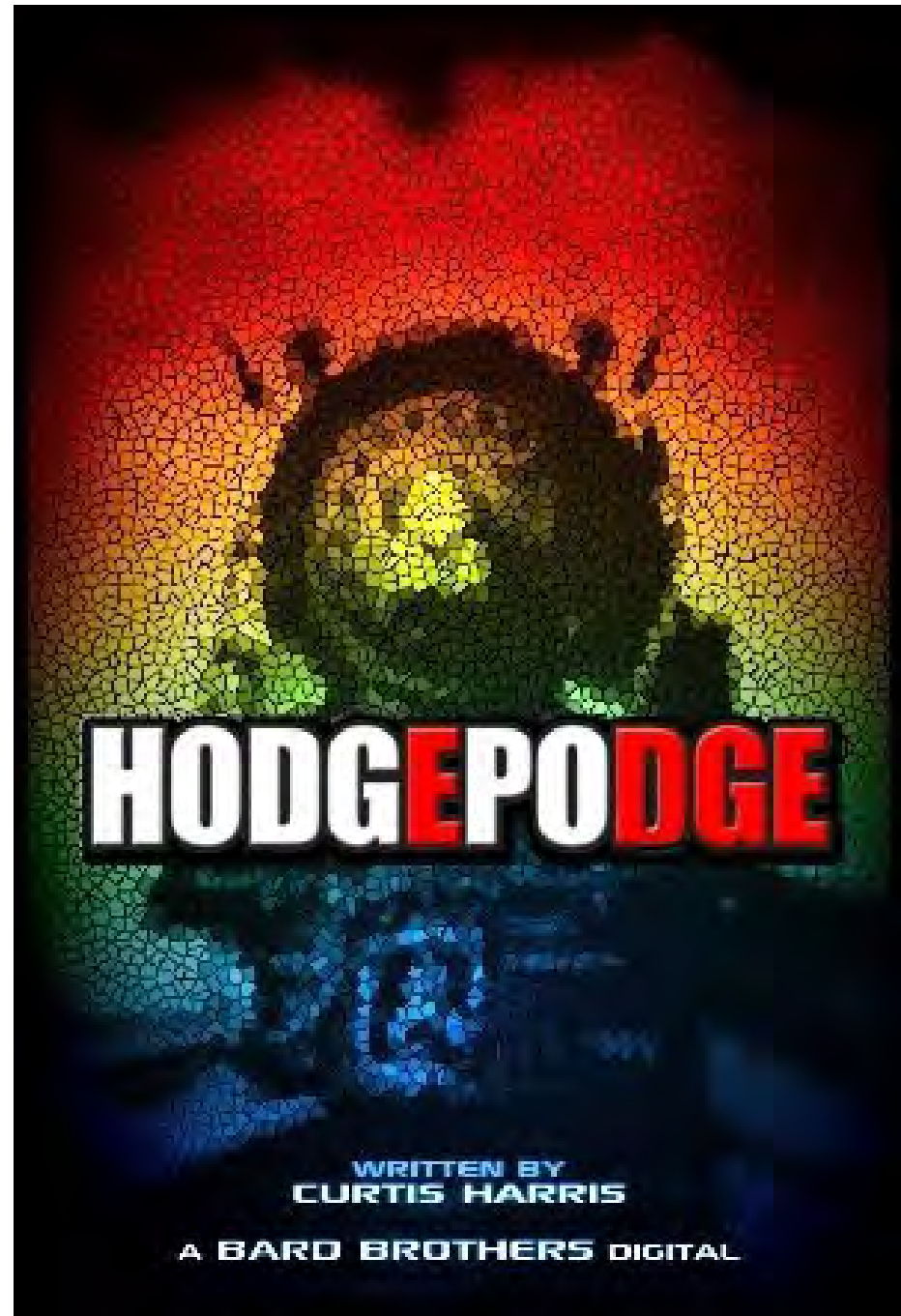


-
- **International and National Update (James Lawler)**
 - **TB Exposure Briefing/Update (Justin Frederick)**
 - **Public Health and Coalition Leader Updates**
 - **ICAP LTC & ALF Updates (Juan Teran)**
 - **Other Updates (All)**
 - **GCHS Statewide Briefing (Tuesday) Call Impact Survey**

INTERNATIONAL & NATIONAL UPDATES

COVID-19 Update

November 28, 2023



W.H.O. Asks China for Details on Surge of Respiratory Illness in Children

Reports of overcrowding at pediatric hospitals in China have raised concerns about a jump in respiratory illnesses affecting children.



Families crowded the waiting room and registration area of Capital Institute of Pediatrics, a hospital in Beijing, with respiratory illnesses in children increasing in the country. Jade Gao/Agence France-Presse — Getty Images

By **Vivian Wang** and **Siyi Zhao**

Nov. 23, 2023

Mystery child pneumonia outbreak reported in China hospitals

Alert issued over reported epidemic of 'undiagnosed pneumonia' among Chinese children

By Sarah Newey, GLOBAL HEALTH SECURITY CORRESPONDENT, IN BANGKOK
22 November 2023 - 12:43pm

Related Topics
China, Global Health Security, Coronavirus



Medical workers at the reception of a Chinese hospital | CREDIT: STR/AFP



ProMED

INTERNATIONAL SOCIETY
FOR INFECTIOUS DISEASES

Published Date: 2023-11-21 10:03:30 CST

Subject: PRO/EDR> Undiagnosed pneumonia - China: (BJ, LN) children, reported epidemic, RFI

Archive Number: 20231121.8713261

UNDIAGNOSED PNEUMONIA - CHINA: (BEIJING, LIAONING) CHILDREN, REPORTED EPIDEMIC, REQUEST FOR INFORMATION

A ProMED-mail post

<http://www.promedmail.org>

ProMED-mail is a program of the
International Society for Infectious Diseases

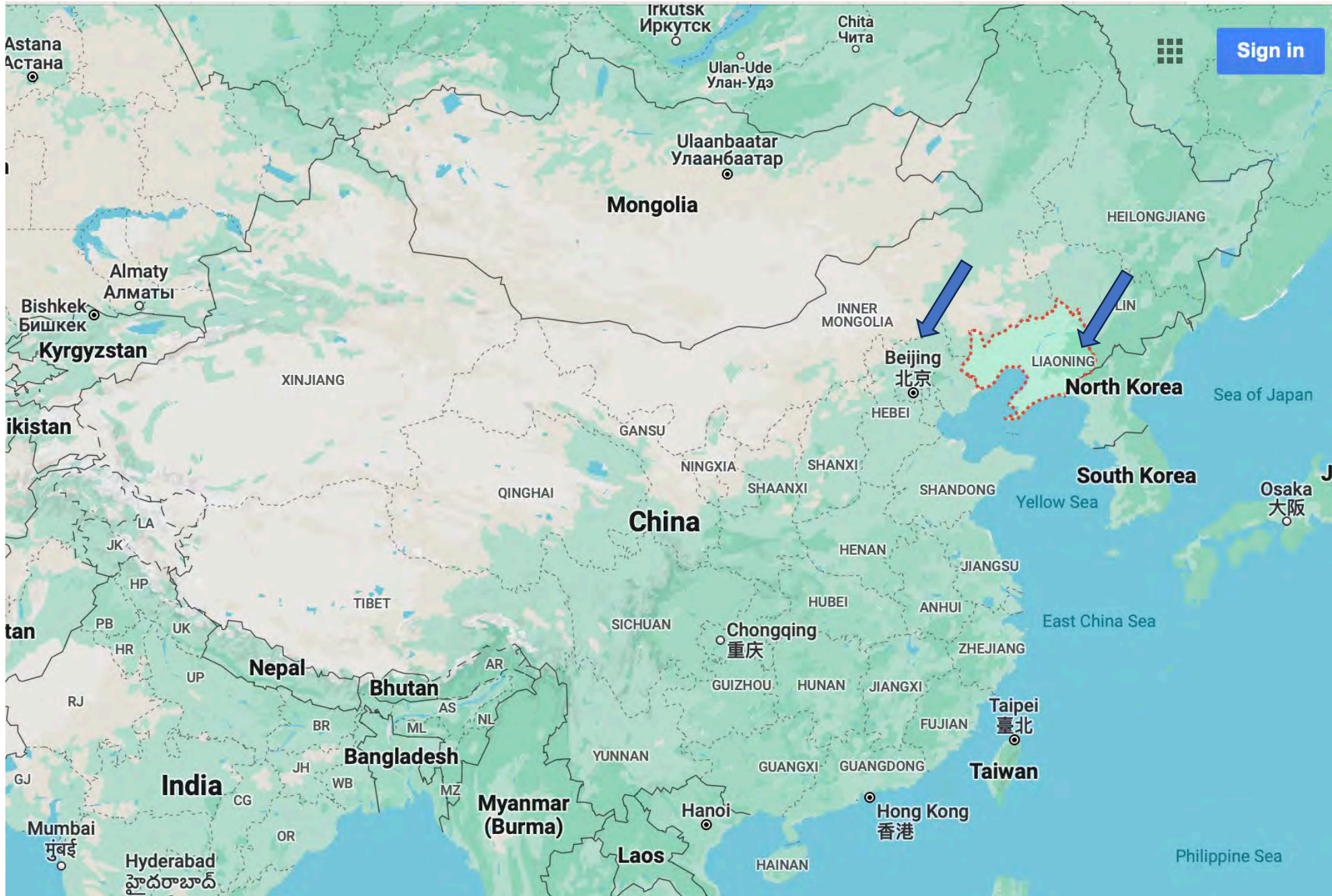
<http://www.isid.org>

Date: Tue 21 Nov 2023 17:37 CST

Source: FTV News [in Chinese, machine trans., abridged, edited]

<https://www.ftvnews.com.tw/news/detail/2023B21I19M1>

“This report suggests a widespread outbreak of an undiagnosed respiratory illness in several areas in China as Beijing and Liaoning are almost 800 km apart...”



Disease Outbreak News

Upsurge of respiratory illnesses among children-Northern China

23 November 2023

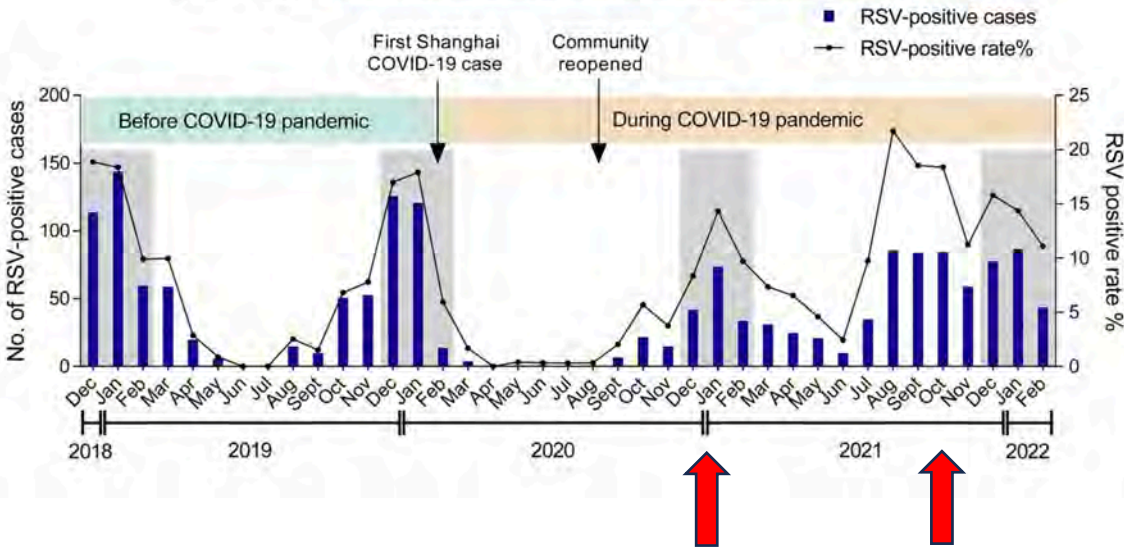
Description of the Situation

Since mid-October 2023, the World Health Organization (WHO) has been monitoring data

“Through the International Health Regulations mechanism, **WHO made an official request to China to provide additional epidemiologic and clinical information**, as well as laboratory results from these reported cases and data about recent trends in circulating respiratory pathogens.”

“On 23 November, WHO held a teleconference with Chinese health authorities from the Chinese Center for Disease Control and Prevention and the Beijing Children’s Hospital, facilitated by the National Health Commission and the National Administration of Disease Control and Prevention, in which the requested data were provided, indicating an **increase in outpatient consultations and hospital admissions of children due to *Mycoplasma pneumoniae* pneumonia since May, and RSV, adenovirus and influenza virus since October.**”

RSV in Shanghai: <https://www.frontiersin.org/articles/10.3389/fmicb.2022.938372/full>

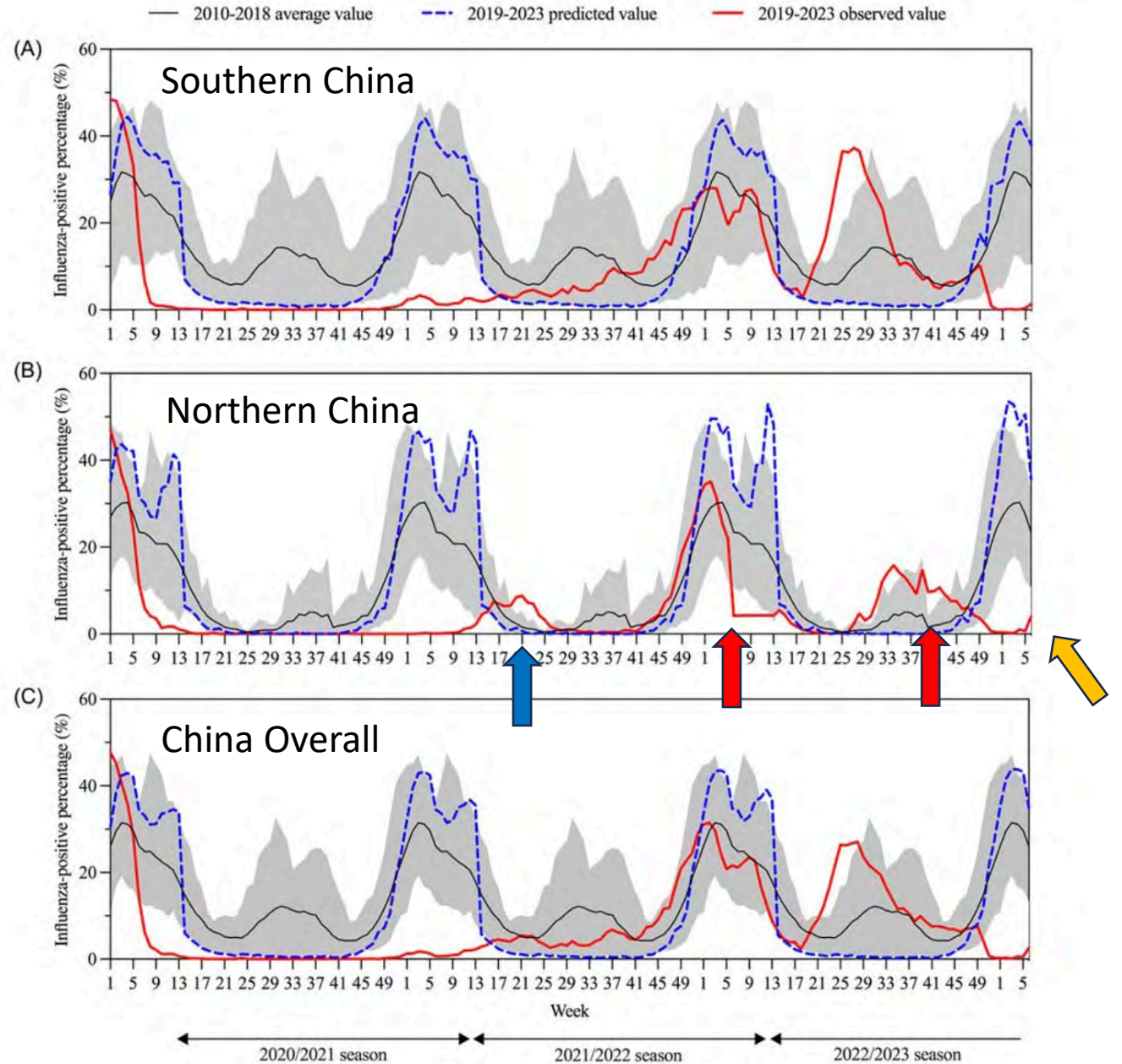


Prof. Christina Pagel

@chrischirp

Follow

Prof Operational Research @UCL_CORU, health care, women in STEM. Member of @independentsage. Tweets personal. chrischirp at bluesky. christinapagel.substack.com



Atypical Canine Infectious Respiratory Disease Complex (aCIRDC)

The New York Times

What to Know About the Mysterious Respiratory Illness Affecting Dogs

Dogs in at least seven states have been infected. Symptoms include coughing, fever, lethargy and intermittent loss of appetite.

Share full article



76



Dogs in at least seven states have come down with a mysterious respiratory illness. Michael Ciaglo/Getty Images

By **Rebecca Carballo**

Nov. 22, 2023

The Washington Post
Democracy Dies in Darkness

NATIONAL Climate Education Health Innovations Investigations National Security Obituaries Science

A mysterious illness is sickening dogs in several states. Some are dying.



By **Kelly Kasulis Cho**

November 21, 2023 at 6:07 a.m. EST



Marie Heckemeyer of Monument, Colo., says goodbye to her dog, Thunder, who died of a respiratory disease on Nov. 6. (Courtesy of Marie Heckemeyer)

Mysterious respiratory illness reported in dogs

14 states now have reported cases of the respiratory illness afflicting dogs.



Source: USA TODAY reporting

- **Clinical Signs**
- Highly contagious, rapidly spreading among dogs in contact with other dogs
- Acute cough, sneezing, nasal discharge, eye discharge, fever, anorexia, lethargy
- Severe form can progress to life-threatening pneumonia requiring oxygen and ventilator support
- Cough may persist for weeks to months



University of New Hampshire
College of Life Sciences and Agriculture

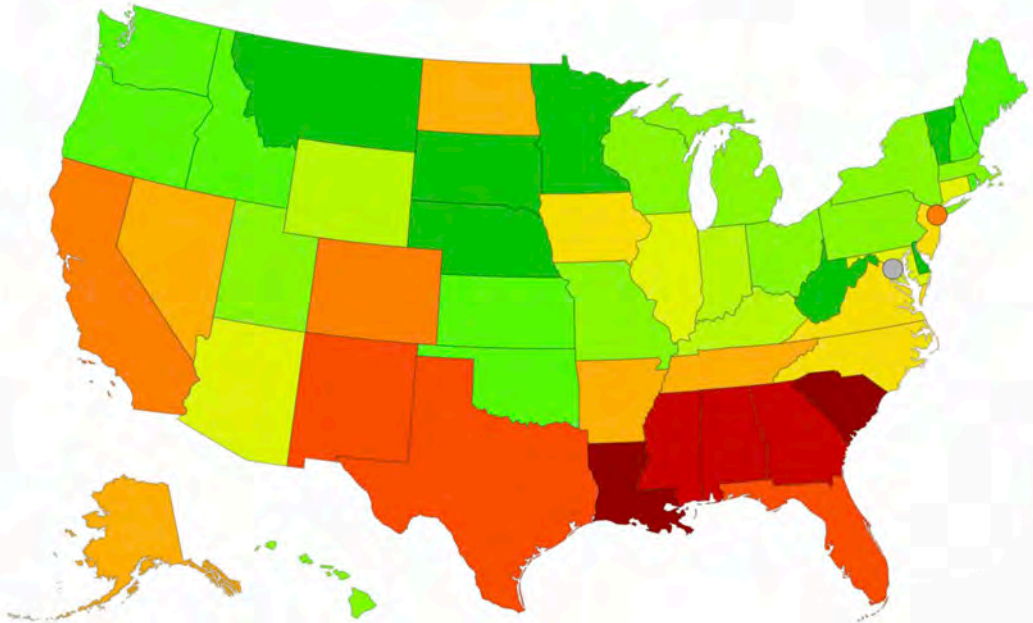


“We found no known viruses, bacteria or fungus that were known pathogens,” said David Needle, the researcher, who works as the pathology section chief at the New Hampshire Veterinary Diagnostic Laboratory. Even more intriguing, a colleague who examined the samples found that, “in 21 of 30 initial animals we sequenced, there was this kind of funky little bacteria,” Needle said.

<https://www.washingtonpost.com/nation/2023/11/21/dogs-respiratory-illness-symptoms-states/>

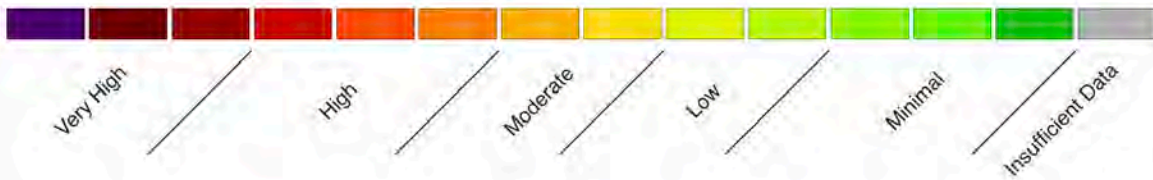
Level of Respiratory Illness Activity

Respiratory Viruses



Territories PR VI

Respiratory Illness Activity Level

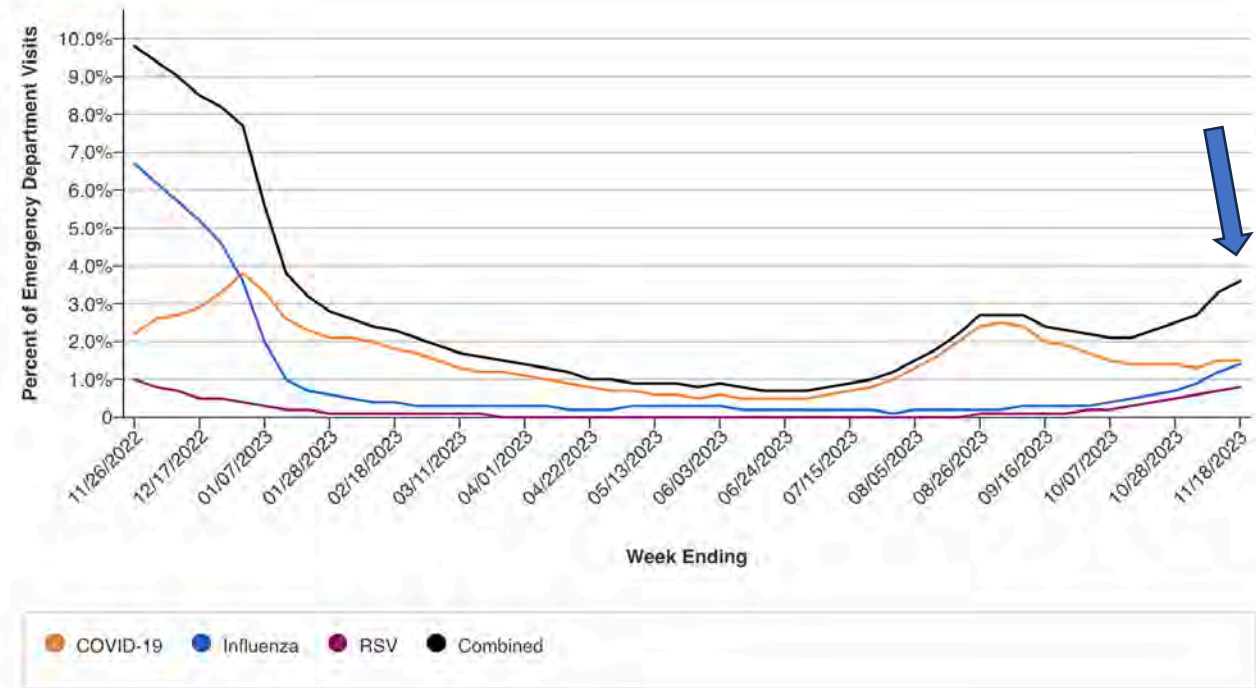


Emergency Department Visits for Viral Respiratory Illness

Weekly percent of total emergency department visits associated with COVID-19, influenza, and RSV.

State/Territory

United States

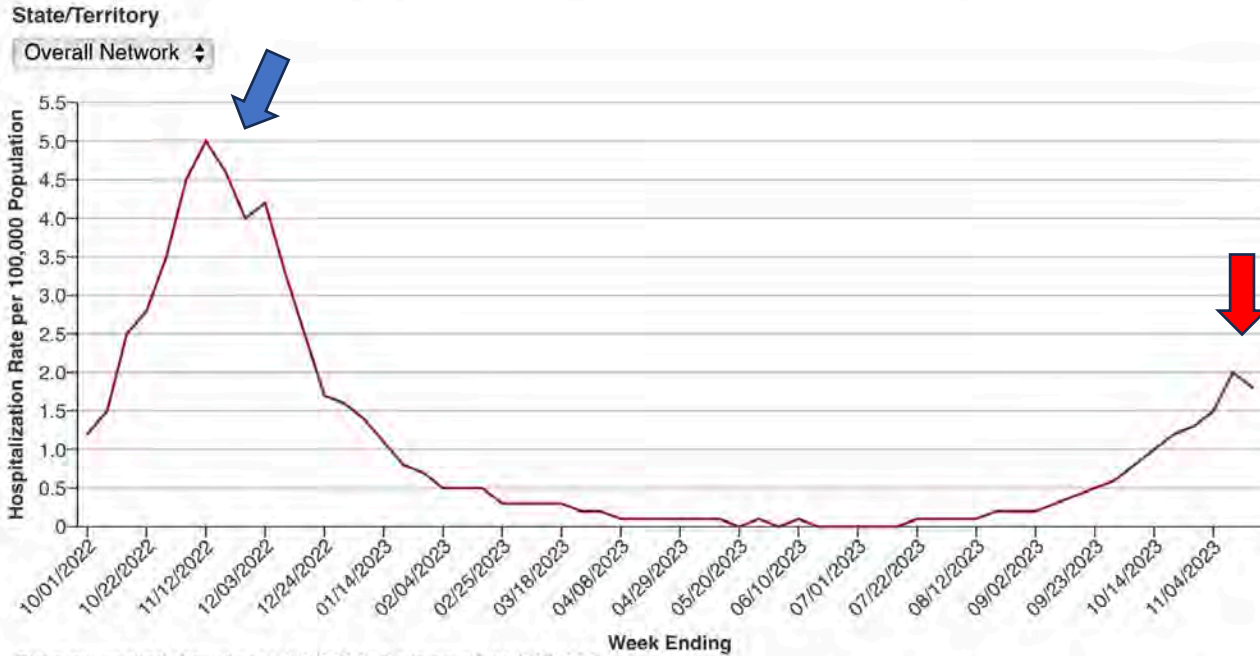


Data presented through: 11/18/2023; Data as of: 11/22/2023

Respiratory Viruses

RSV Hospitalization Rates

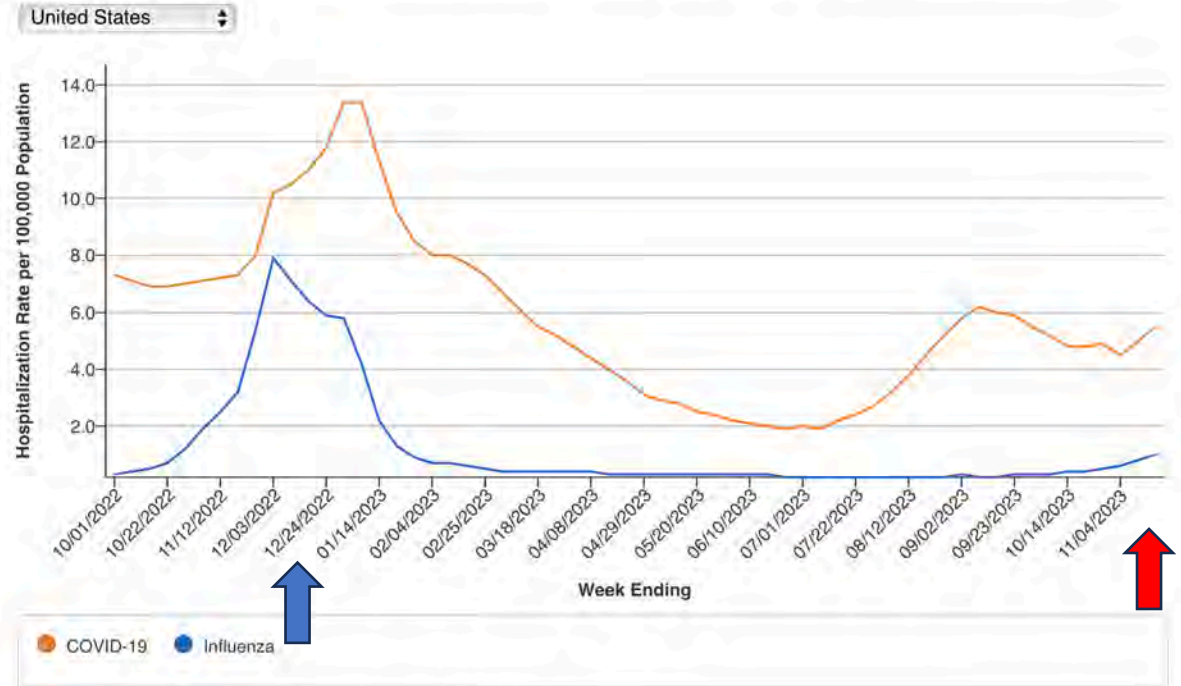
Weekly hospitalization rates reported per 100,000 population. Based on findings from participating sites in 58 counties in 12 states.



Data presented through: 11/18/2023; Data as of: 11/23/2023

COVID-19 and Influenza Hospitalization Rates

Weekly (7-day total) hospitalization rates reported per 100,000 population. RSV hospitalizations are not included in this dataset (see footnotes).



Data presented through: 11/18/2023; Data as of: 11/23/2023



— Wastewater — Clinical cases daily avg █ Clinical daily cases

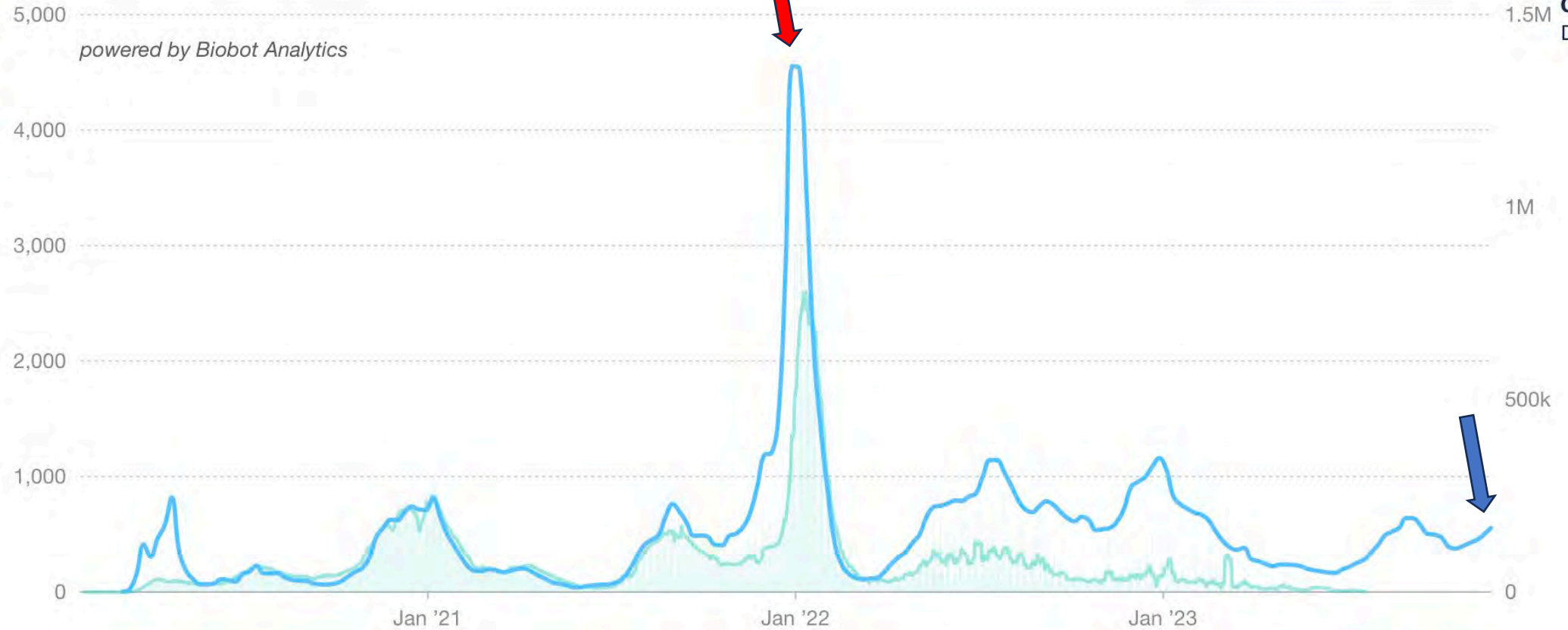
Show cases

Total results

Last 6 months

Last 6 weeks

Wastewater:
Effective SARS-CoV-2 virus concentration (copies / mL of sewage)



Clinical:
Daily new cases

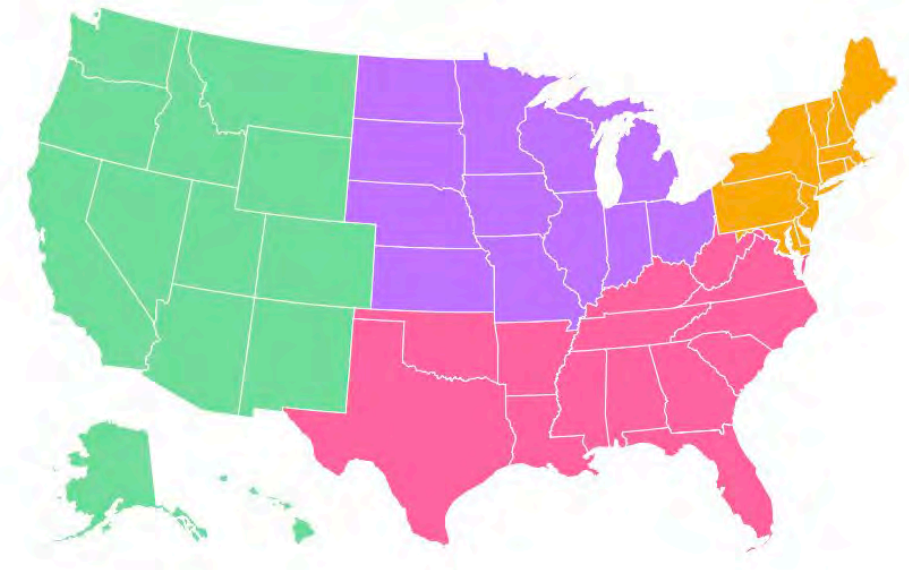
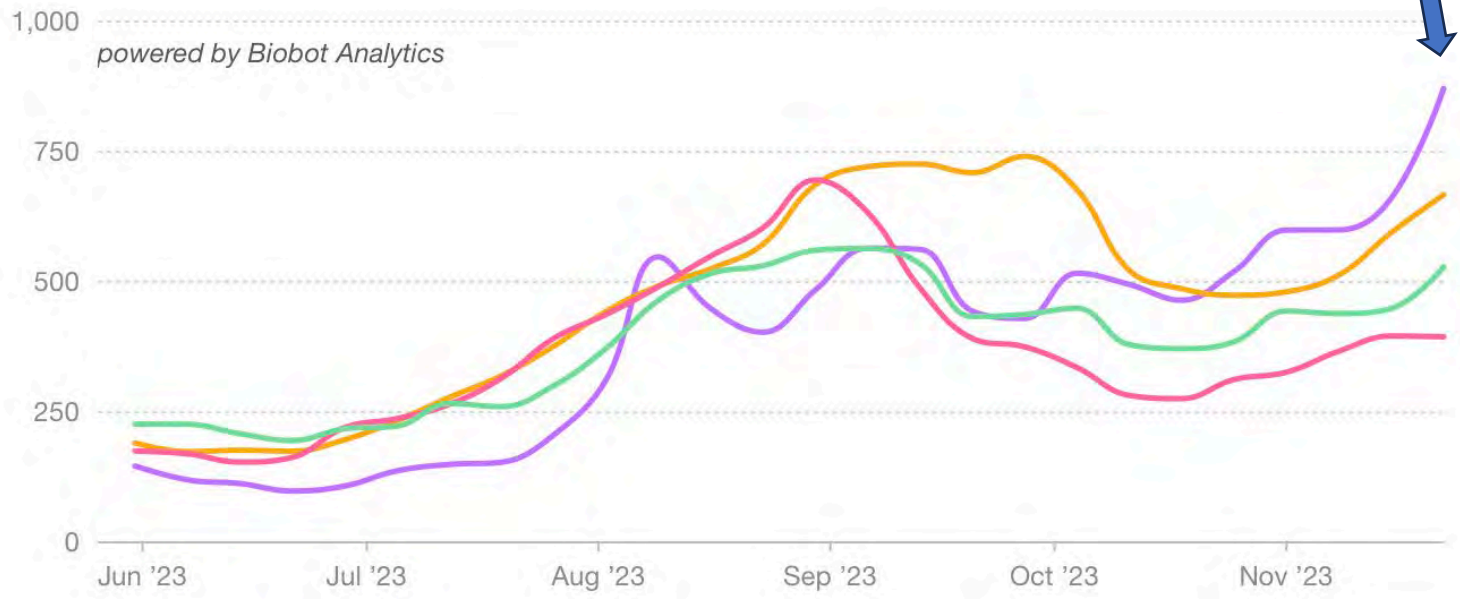
Source: Wastewater data from Biobot Analytics; Clinical data from USAFacts



Show nationwide average

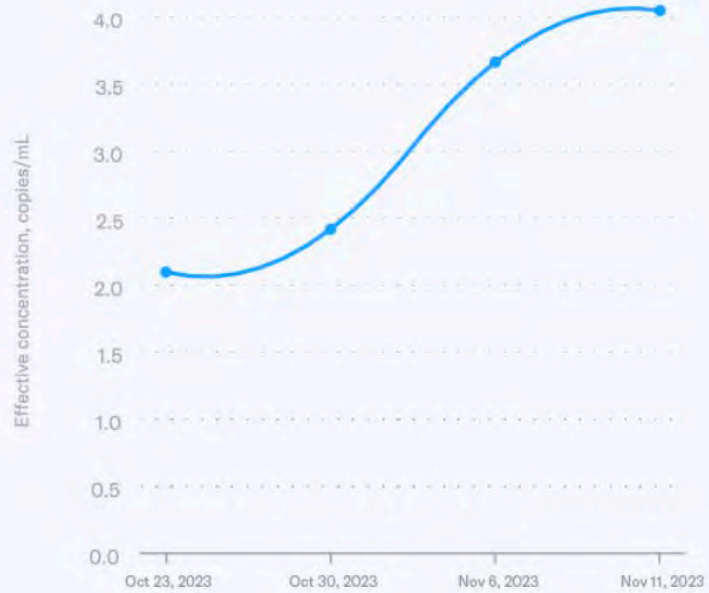
Total results Last 6 months Last 6 weeks

Wastewater: Effective SARS-CoV-2 virus concentration (copies / mL of sewage)



Source: Wastewater data from Biobot Analytics

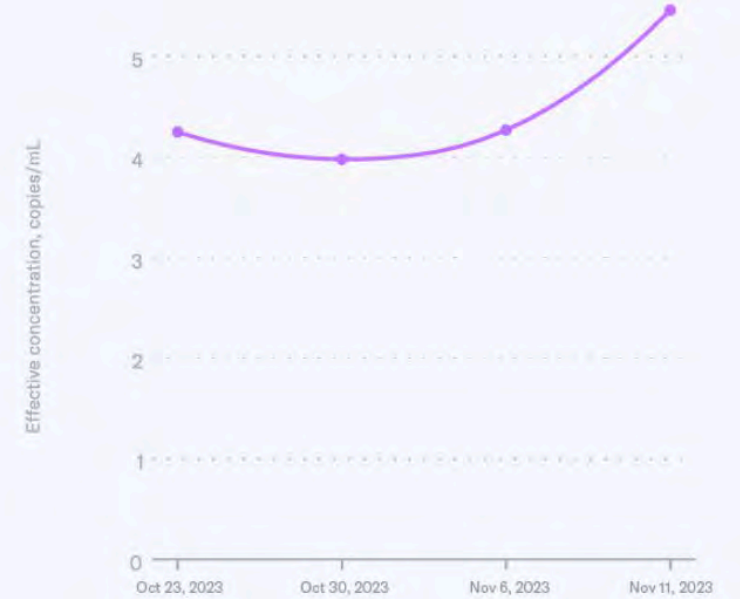
National Influenza and RSV Wastewater Concentrations



Influenza A



Influenza B



RSV



OPEN ACCESS PEER-REVIEWED

RESEARCH ARTICLE

Long COVID in the United States

David G. Blanchflower , Alex Bryson

Published: November 2, 2023 • <https://doi.org/10.1371/journal.pone.0292672>

Article	Authors	Metrics	Comments	Media Coverage	Peer Review
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Print	Share

- ...data collected from nearly half a million Americans in the period June 2022-December 2022 in the US Census Bureau's Household Pulse Survey (HPS).

	No covid	Short COVID	Had long COVID	Long COVID now
Panel A:				
Anxious	1.94	1.87	2.28	2.53
Down & depressed	1.76	1.66	1.99	2.25
Worry	1.86	1.78	2.14	2.42
Interest	1.79	1.68	2.02	2.30
Combined	7.43	7.06	8.48	9.61
Panel B:				
Mobility	1.37	1.23	1.36	1.60
Self-care	1.12	1.07	1.12	1.21
Understand	1.11	1.07	1.12	1.20
Remember	1.49	1.44	1.68	1.96

<https://doi.org/10.1371/journal.pone.0292672.t004>





	Weighted %
Never had COVID	52.4
Short COVID: COVID but not long COVID	33.2
Had long COVID no symptoms now	7.5
Had long COVID with current symptoms	6.9

<https://doi.org/10.1371/journal.pone.0292672.t005>

TheUpshot

Can't Think, Can't Remember: More Americans Say They're in a Cognitive Fog

Adults in their 20s, 30s and 40s are driving the trend. Researchers point to long Covid as a major cause.

 Share full article    359

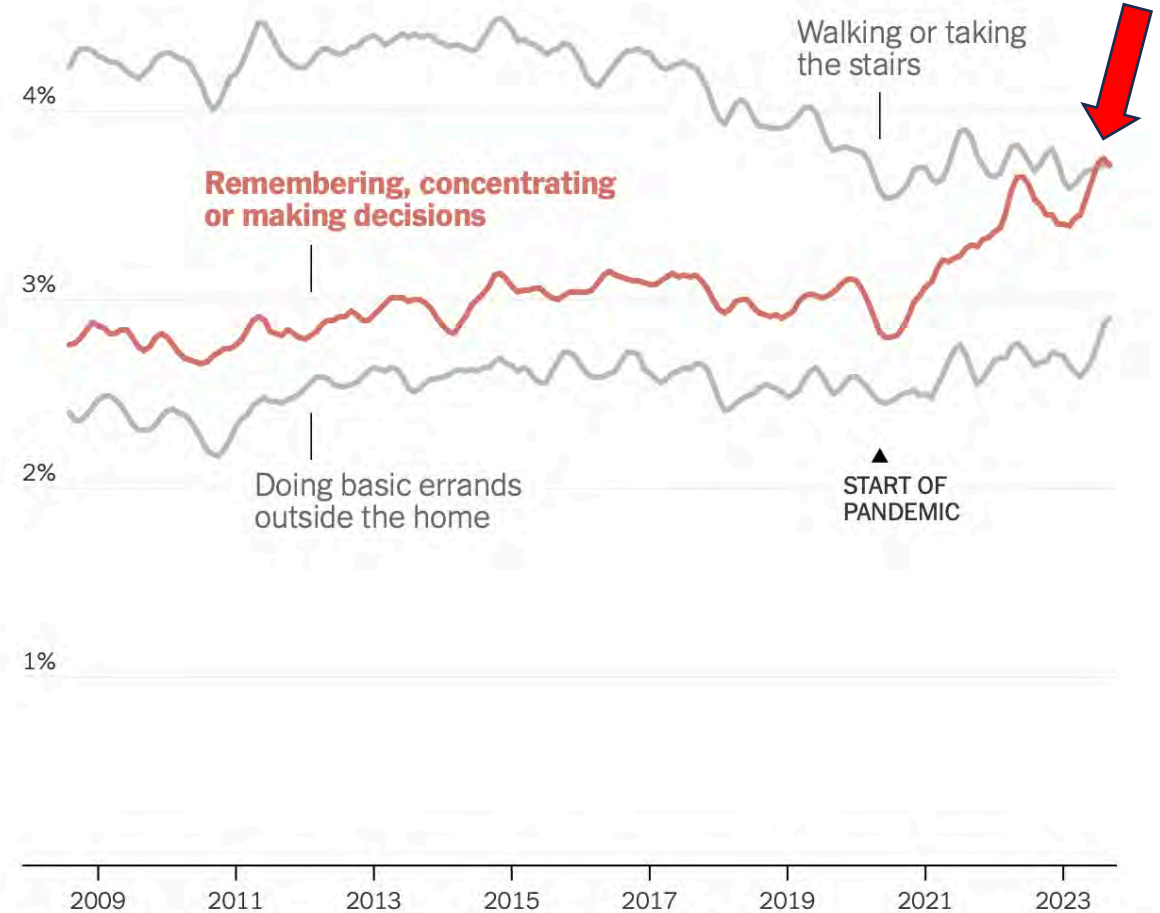
By Francesca Paris

In reporting for this article, Francesca Paris talked to 16 researchers and medical professionals who study disability, long Covid, cognition and census data.

Nov. 13, 2023

There are more Americans who say they have serious cognitive problems — with remembering, concentrating or making decisions — than at any time in the last 15 years, data from the Census Bureau shows.

Percent of working-age people who said they had “serious difficulty” with ...



Three-month rolling average. Includes people ages 18 to 64. Source: Current Population Survey via IPUMS



Categories > Population, Employment, & Labor Markets > Current Population Survey (Household Survey) > Civilian Labor Force

☆ Civilian Labor Force - With a Disability, 16 Years and over (LNU01074597)

DOWNLOAD

Observation:

Oct 2023: **8,197**

(+ more)

Updated: Nov 3, 2023

Units:

Thousands of Persons,
Not Seasonally Adjusted

Frequency:

Monthly

1Y | 5Y | 10Y | Max

2008-06-01

to

2023-10-01

EDIT GRAPH

FRED — Civilian Labor Force - With a Disability, 16 Years and over



Shaded areas indicate U.S. recessions.

Source: U.S. Bureau of Labor Statistics

fred.stlouisfed.org



**DOUGLAS COUNTY HEALTH DEPT TB
EXPOSURE UPDATE**

Douglas County Health Dept.

TB Exposure Update I



TB Exposure Recommendations for Primary Care Providers from Children's Nebraska Pediatric Infectious Diseases Team

The Douglas County Health Department (DCHD) is working to investigate an exposure to tuberculosis (TB) within the Westview YMCA Drop-In ChildWatch program. A thorough investigation is being conducted to identify individuals who had close contact with the ill person and were potentially exposed to TB. Close contact includes being in the same room but does NOT include brief exposures in the hallway, restroom or gym.

All families that utilized the Westview YMCA Drop-In ChildWatch program during this period were notified whether their child was nonexposed or exposed to the source patient. These letters were sent out to families on 11/9/23. Individuals that did not attend the Westview YMCA Drop-In ChildWatch but attend the Westview YMCA in general are not considered exposed and no further action is need for these individuals and they will not receive letters.

All children potentially exposed between May 30, 2023, and October 30, 2023, should be tested for TB and receive treatment if found to have a positive result. Additionally, for those exposed from August 21, 2023, to October 30, 2023, there are special considerations. Children >4 years of age will need initial TB testing with a TB Quantiferon as well as repeat testing 10 weeks after their last exposure. The date of their last exposure will be in their letter from DCHD. Children in this age group do not need any medication or imaging unless have potential active TB symptoms. Children ≤4 years of age require more in-depth evaluation and window prophylaxis as they are at increased risk of developing active TB. Please see the below chart for specific evaluation and window prophylaxis recommendations. Additional family members that were not identified as being exposed do not need to be tested. If a family has not received a letter, they were nonexposed, they do not need any testing or further evaluation. If a family did attend the Westview YMCA Drop-In ChildWatch program during these dates but has not received a letter, they should contact the Westview YMCA and DCHD for further clarification.

Please review the following chart for guidance related TB testing and evaluation.

Douglas County Health Dept.

TB Exposure Update II



Time Period of Most Recent Exposure	TB Testing and Evaluation Recommended
May 30 th – August 20 th	<p><u>Douglas County Health Department</u></p> <p>Children < 2 Years – Purified protein derivative (PPD) Skin Test</p> <p>Children ≥ 2 Years – TB Quantiferon Blood Test</p>
August 21 st – October 30 th	<p><u>Children's Nebraska Pediatric Infectious Diseases Clinic or your Primary Care Clinic</u></p> <p>Children ≤ 4 Years –</p> <ul style="list-style-type: none"> • Clinic evaluation for 2-view CXR and TB testing and discuss initiation of preventive treatment <ul style="list-style-type: none"> ○ Children < 2 Years – Purified protein derivative (PPD) Skin Test ○ Children ≥ 2 Years – TB Quantiferon Blood Test • 2nd TB testing 10-12 weeks following last known TB exposure <p><u>Douglas County Health Department</u></p> <p>Children ≥ 5 Years –</p> <ul style="list-style-type: none"> • TB Quantiferon Blood Test • 2nd TB testing 10-12 weeks following last known TB exposure

TB test interpretation

PPD tests should be read 48-72 hours after placement by a qualified health professional. **In a known exposure, a PPD is positive when ≥ 5 mm.** TB Quantiferon tests will be result as positive, indeterminate or negative.

A Positive test but WITHOUT clinical or radiographic evidence of infection indicates a patient has a **latent TB infection (LTBI) and should be started on LTBI treatment.** If the TB Quantiferon is indeterminate, please repeat this test.

A positive PPD or IGRA test WITH clinical or radiographic evidence of infection indicates a patient has an **active TB infection.** Patient will require hospital admission for additional evaluation. If you would like to discuss with Children's Infectious Diseases team, please call the Children's Priority Line #855-850-5437.

Douglas County Health Dept.

TB Exposure Update III

Recommended window prophylaxis agents:

Either rifampin or isoniazid can be used for window prophylaxis. The duration should be for 10 weeks from the date of last known exposure. The date of last known exposure will be in the letter from DCHD that was provided to families. Please note these medications are not in stock in most pharmacies and not all pharmacies have the ability to prepare liquid solutions of these medications.

- **Rifampin (preferred option, however, can have drug-drug interactions)***
 - Oral: 15 to 20 mg/kg/day once daily; maximum dose: 600 mg/dose
 - **Rifampin formulations:**
 - 150 mg and 300 mg oral capsules
 - 25mg/mL (requires a compounding pharmacy)
 - Tips for increased tolerance:
 - Capsules can be opened and mixed into semi-soft food (pudding, yogurt, etc.)
 - Solution can be mixed with flavors at some pharmacies
 - *Preferred option in the event that LTBI treatment would need to be completed

- **Isoniazid (INH) (fewer drug-drug interactions)**
 - Oral: 10–15 mg/kg/day (max 300 mg)
 - **INH formulations:**
 - 100 and 300 mg scored tablets
 - Suspension (10mg/ml)
 - Tips for increased tolerance:
 - Tablets crushed into a semi-soft food (pudding, yogurt, etc.)
 - Often crushed tablets are tolerated better than suspension
 - Bedtime is optimal (avoids slight abdominal discomfort / good for adherence)

Follow-up

Patients who are receiving window prophylaxis will need monthly follow up for TB symptom screening, medication adherence and side effect monitoring. They additionally will need a repeat age-appropriate TB testing 10 weeks after last known exposure. If repeat age-appropriate TB testing is positive, the patient will need repeat CXR to determine if they have LTBI or active disease and should be treated appropriately based on their CXR.

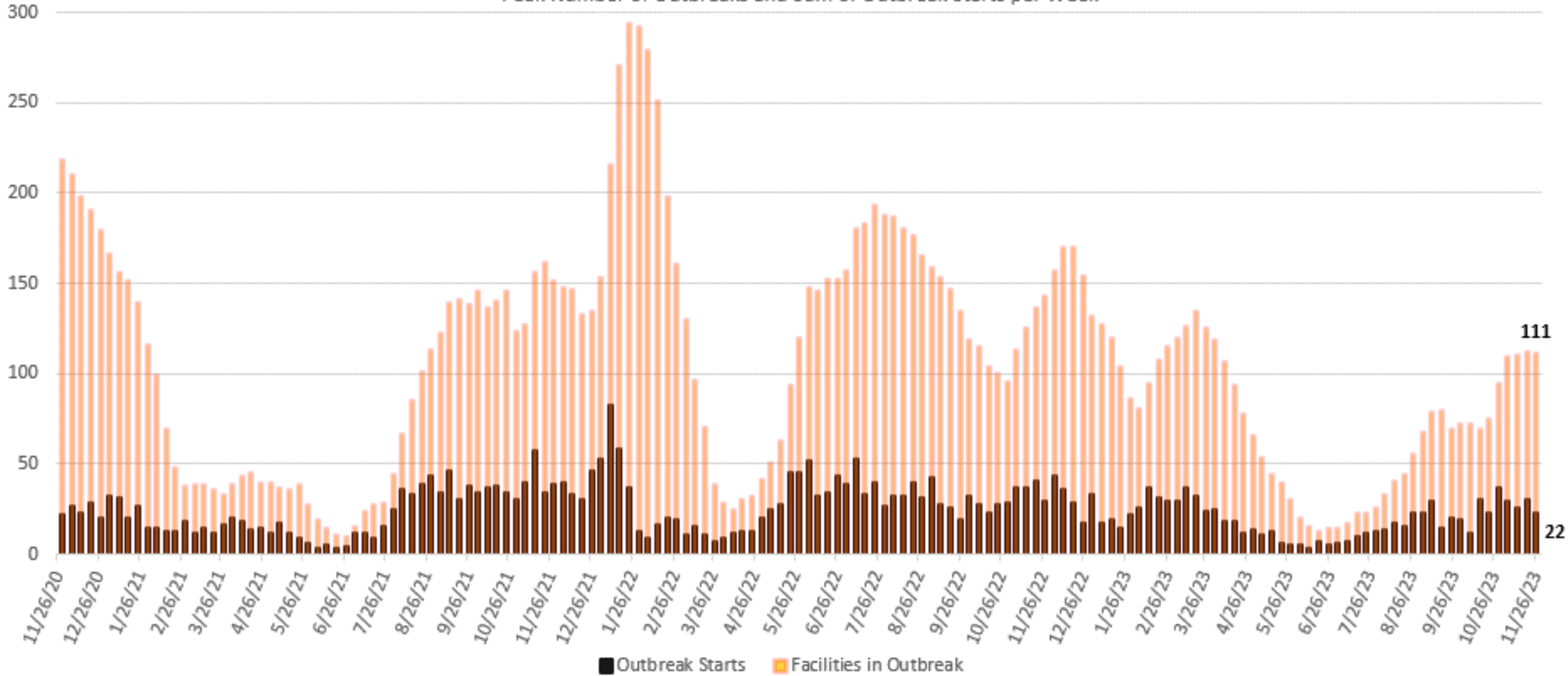
For children >4 that were exposed August 21, 2023, through October 30, 2023, they should have repeat age-appropriate TB testing 10 weeks after their last known exposure. If the repeat TB Quantiferon test is positive, the patient should have a CXR to determine if they have LTBI or active disease and should be treated appropriately based on their CXR. **Please consult Children's Pediatric Infectious Diseases team for any referrals at 402-955-4005.**

PUBLIC HEALTH & COALITION LEADERS UPDATES

ICAP LTC & ALF

Nebraska LTC Facilities in COVID Outbreak by Week

Peak Number of Outbreaks and Sum of Outbreak Starts per Week

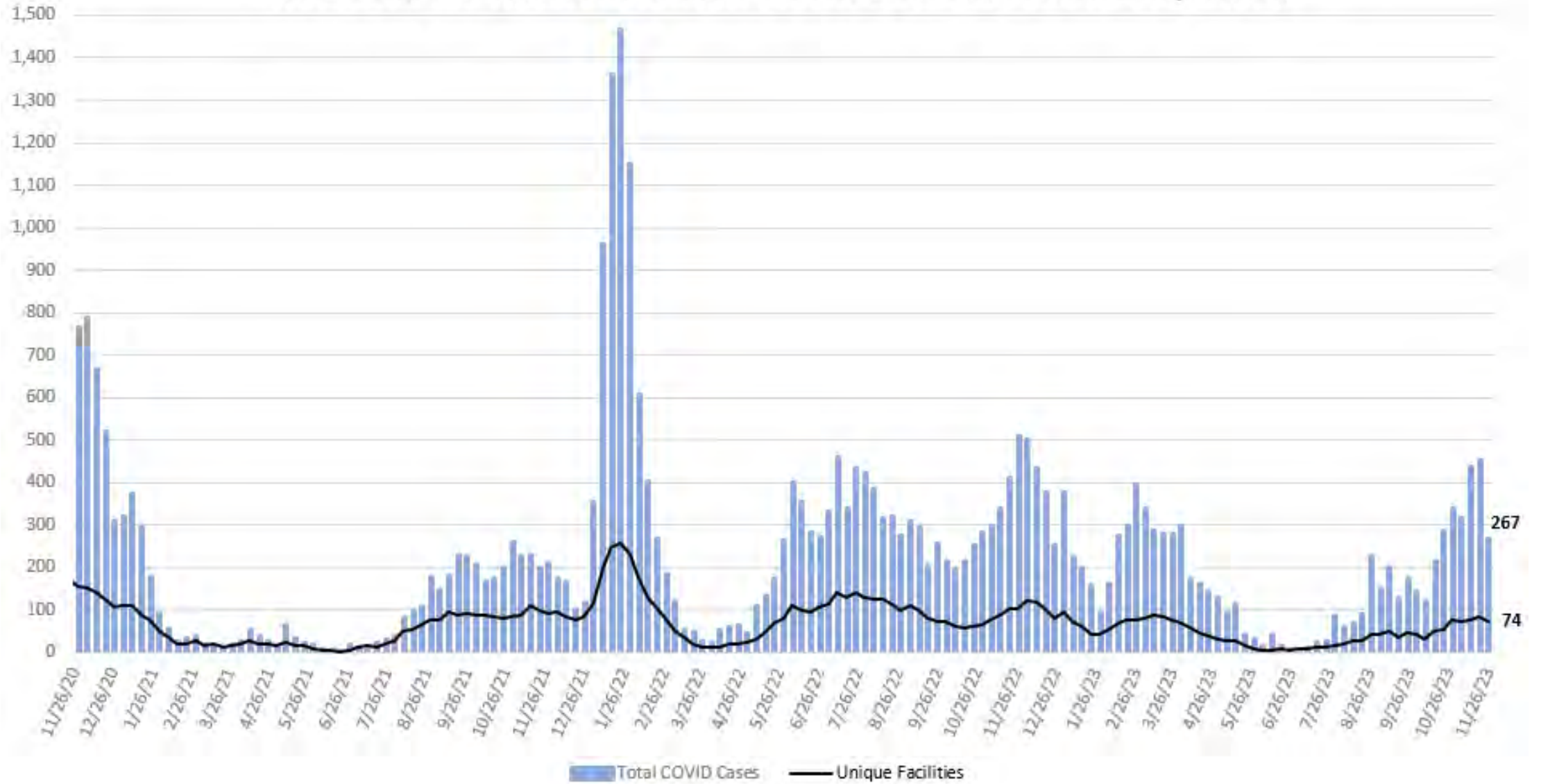


Source: Unofficial Counts Compiled by Nebraska ICAP based on data reported by facilities and DHHS; Actual Numbers may vary slightly

Slide Credit: Dan German – ICAP Project Manager



Nebraska LTC Resident & Staff COVID Cases & Facilities by Week

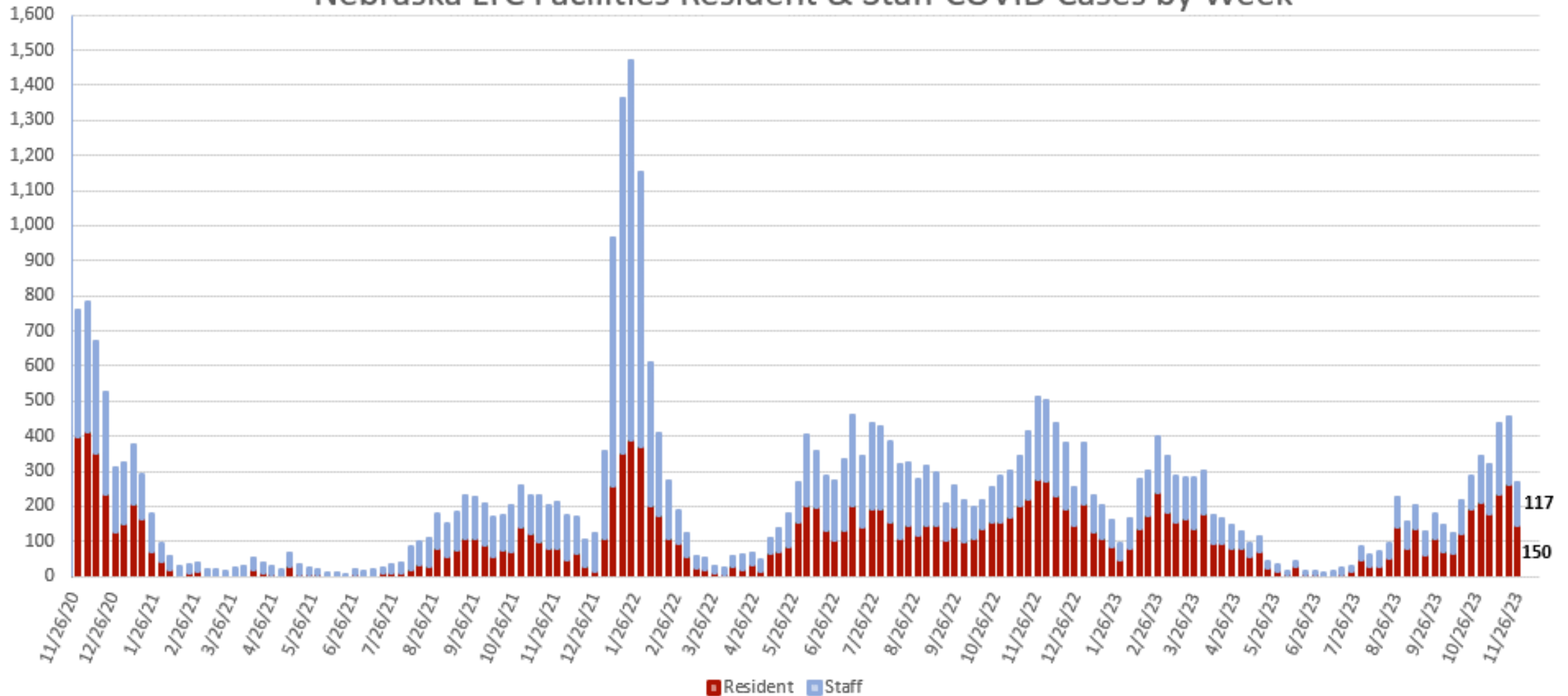


Source: Unofficial Counts Compiled by Nebraska ICAP based on data reported by facilities and DHHS; Actual Numbers may vary slightly

Slide Credit: Dan German – ICAP Project Manager



Nebraska LTC Facilities Resident & Staff COVID Cases by Week



Source: Unofficial Counts Compiled by Nebraska ICAP based on data reported by facilities and DHHS; Actual Numbers may vary slightly

Slide Credit: Dan German – ICAP Project Manager



NHSN Resident Vaccination Percentages Summary										
UTD Vaccination Ranges	Number of Facilities	Number of Residents	COVID Residents in Last 14 Days	14 Day Positivity	COVID Residents in Last 21 Days	21 Day Positivity	COVID Residents in Last 28 Days	28 Day Positivity	COVID Residents in Last 60 Days	60 Day Positivity
0%	51	2,178	107	4.9%	164	7.5%	215	9.9%	340	15.6%
1% to 25%	31	2,112	120	5.7%	193	9.1%	209	9.9%	330	15.6%
25% to 50%	31	1,817	56	3.1%	101	5.6%	146	8.0%	199	11.0%
50% to 75%	48	2,902	51	1.8%	80	2.8%	113	3.9%	270	9.3%
75% to 100%	23	1,119	22	2.0%	24	2.1%	27	2.4%	75	6.7%
Total	184	10,128	356	3.5%	562	5.5%	710	7.0%	1,214	12.0%

Source: Unofficial Counts Compiled by Nebraska ICAP based on data reported by facilities and DHHS; Actual Numbers may vary slightly

Slide Credit: Dan German – ICAP Project Manager



Educational Opportunity

🏠 – [College of Medicine](#) – [Department of Internal Medicine](#) – [Divisions](#) – [Infectious Diseases](#) – [ECHO](#) – [Achieving Equitable Health Outcomes in Nebraska](#) – Phase 2 - Achieving Equitable Health Outcomes in Nebraska

Phase 2 - Achieving Equitable Health Outcomes in Nebraska

This is an extension of the ongoing ECHO Project on Health Equity, Cultural Sensitivity and Quality Improvement.

Timeline: June 2023-May 2024

The highlights of registering in this project (an ECHO Project funded by Nebraska DHHS through a CDC grant) include:

- Meet the Joint Commission's new Leadership Standards that have been [elevated to a National Patient Safety Goal 16.10.01](#), and this includes ambulatory care organizations, behavioral health care, human services organizations, critical access hospitals, and hospitals, **effective July 1, 2023**.
- Remain up to date on guidance for improving COVID-19 prevention, diagnosis, and treatment in your practice setting.

IN THIS SECTION

Achieving Equitable Health Outcomes in Nebraska: An ECHO Project Funded by Nebraska DHHS through a CDC Grant

- [Phase 2 - Achieving Equitable Health Outcomes in Nebraska](#)
- [Project Team](#)

When: Third Wednesday of Every Month

Time: 12 noon to 1 PM CST

Next ECHO Session On: December 20th, 2023

Registration Survey Link:

<https://redcap.nebraskamed.com/surveys/?s=9D448KMYJTF4JXA4>

<https://www.unmc.edu/intmed/divisions/id/echo/health-equity/phase2.html>

Session 7 Topic and Objectives

Session Topic: Patient and Community Engagement in Health Equity

Date and Time: Wednesday, December 20th at Noon

Session Objectives:

- Examine how to apply Quality Improvement (QI) tools to the evaluation of change ideas
- Summarize strategies for engaging patients in health equity priorities
- Incorporate patient feedback to create more equitable changes as part of a case discussion

HOT TOPICS / OTHER UPDATES

GCHS Statewide Briefing (Tuesday) Call Impact Analysis Survey

November 28th , 2023

Sami Vasistha

**University of Nebraska
Medical Center**



**Nebraska
Medicine**

GCHS Statewide Briefing (Tuesday) Call Impact Survey

Context:

- The Statewide Briefing Call commenced in Spring 2020.
- It has undergone multiple iterations
- Evolved in terms of frequency and structured agenda

Need:

- Assess the impact and value of the call.
- Identify opportunities for process improvement.

Ask:

- Complete our short survey by December 1st.
The survey will take less than 10 minutes of your time.
- Click on the link or scan the QR code provided to share your valuable feedback.
[CLICK HERE FOR SURVEY](#)
- Survey responses will remain anonymous.



Thank you for providing valuable input to further enhance the Statewide Briefing Call!



Each household can request 4 additional covid at home tests, starting Nov 20th.

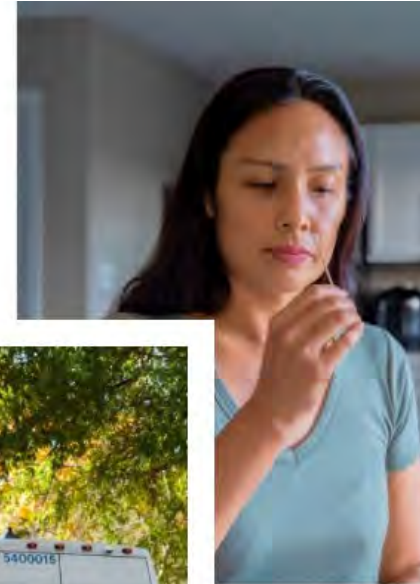
Get free at-home COVID-19 tests this fall on COVIDTests.gov

Every home in the U.S. is eligible to order an additional 4 free at-home tests beginning November 20. If you did not order tests this fall, you may place two orders for a total of 8 tests.

Your order of COVID tests is completely free – you won't even pay for shipping.

[Order Free At-Home Tests](#)

Need help placing an order for your at-home tests? Call [1-800-232-0233](tel:1-800-232-0233) (TTY [1-888-720-7489](tel:1-888-720-7489)).



Upcoming Changes in HAN Communication Methods

The Nebraska Department of Health and Human Services uses the Health Alert Network (HAN) to share information for healthcare providers, facilities, and local partners via emails and faxes.

Starting December 1, 2023

- Fax service will be phased out
- Email will remain as a method to receive HANs
- SMS text option will be added

- **To continue to receive HANs w/o fax**
 - Enroll by contacting this email address (DHHS.NEHAN@nebraska.gov)
 - Subscribe to the DHHS HAN archive webpage (<https://dhhs.ne.gov/pages/Health-Alert-Network.aspx>)