
Nebraska Statewide Infectious Disease Updates

July 9, 2024





WEBINAR

H5N1 and Dairy Cattle: Essential Biosecurity Measures for Exhibitors and Fair Organizers

SPEAKERS

Jamie Jonker, PhD is NMPF's Chief Science Officer and Vice President of Sustainability and Scientific Affairs. Jonker is NMPF's lead scientific expert on dairy issues ranging from animal health and sustainability to dairy farm biosecurity, air and water quality and more.

Danelle Bickett-Weddle, DVM, MPH, PhD, DACVPM is a veterinarian with over 25 years of experience promoting livestock health through action. She contributed to the development of the Secure Milk and Beef Supply Plans and more recently, she consulted with NMPF in the creation of the FARM Biosecurity resources.

DATE & TIME

Wednesday, July 10, 2024
12:00 - 1:00 p.m. ET

DESCRIPTION

Join the National Milk Producers Federation (NMPF) and the National Dairy FARM Program for a joint webinar that will provide dairy cattle exhibitors, fair organizers and stakeholders with comprehensive biosecurity measures to mitigate the risks associated with the H5N1 outbreak. Experts in animal health and biosecurity will offer practical advice and best practices to ensure the safety and well-being of dairy cattle during fairs and expositions. Topics covered will include preventive measures, response protocols and the latest updates on the outbreak.

HHS/ASPR Project ECHO Clinical Readiness Rounds

Update on Health Care Readiness for H5N1

with Lauren Sauer, Jonathan Grein, MD, and James
Lawler, MD

Tuesday, July 16, 12:00 – 1:00 PM ET



<https://iecho.org/public/program/PRGM1703002309004M2CX1LFEND>

CDC COCA Webinar

Update on Highly Pathogenic Avian Influenza A(H5N1) Virus for Clinicians and Healthcare Centers



Overview

Highly Pathogenic Avian Influenza (HPAI) (H5N1) virus is widespread among wild birds and continues to cause outbreaks in poultry and spillover to mammals. In March 2024, HPAI A(H5N1) virus was detected in dairy cattle. To date, there have been three human cases of HPAI A(H5N1) virus infection identified in dairy farm workers in the United States. The risk to the public from HPAI A(H5N1) viruses is low; however, people who have job-related or recreational exposure to infected birds or animals, including dairy cattle, are at greater risk of HPAI A(H5N1) virus infection. During this COCA Call, presenters will give an update on the current outbreak in the United States and current CDC surveillance and monitoring efforts. They will also provide information for clinicians on testing, using antivirals, and infection prevention and control recommendations.

- **When:**
Tuesday, July 16, 2024
2:00 PM – 3:00 PM ET

- **Webinar Link:**
<https://www.zoomgov.com/j/1618350375>

- **Passcode:** 143703
- **Dial In:**
US: +1 669 254 5252 or +1 646 828 7666
- [International numbers](#)
- **One-tap mobile:**
US: +16692545252,,1618350375#,,,,*143703#
- **Webinar ID:** 161 835 0375

Speakers:

Tim Uyeki, MD, MPH, MPP
Chief Medical Officer
Influenza Division
National Center for Immunization
and Respiratory Diseases
Centers for Disease Control and
Prevention

Ryan Fagan, MD, MPH&TM
Medical Officer
Prevention and Response Branch
Division of Healthcare Quality
Promotion
National Center for Emerging
and Zoonotic Infectious Diseases
Centers for Disease Control and
Prevention

Alicia Budd, MPH
Team Lead
National Surveillance and Outbreak
Response Team
Epidemiology and Prevention
Branch
Influenza Division
National Center for Immunization
and Respiratory Diseases
Centers for Disease Control and
Prevention



Nebraska Updates

TUESDAY 7/9/2024



- **International and National Updates – James Lawler**
- **Public Health and Coalition Leader Updates**
- **ICAP LTC & ALF Updates - Juan Teran**
- **Other Updates - All**

INTERNATIONAL & NATIONAL UPDATES

COVID-19 and H5N1 Update

July 9, 2024




'Playing COVID roulette': Some infected by FLiRT variants report their most unpleasant symptoms yet



A large number of travelers make their way through Tom Bradley International Terminal at LAX during the busy July 4 holiday. (Jason Armond / Los Angeles Times)

By Rong-Gong Lin II

Staff  3rd party ad content

July 8, 2024 Updated 9:01 AM PT

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LETTERS TO THE EDITOR

Letters to the Editor: California DMV tests don't make sense, especially for seniors

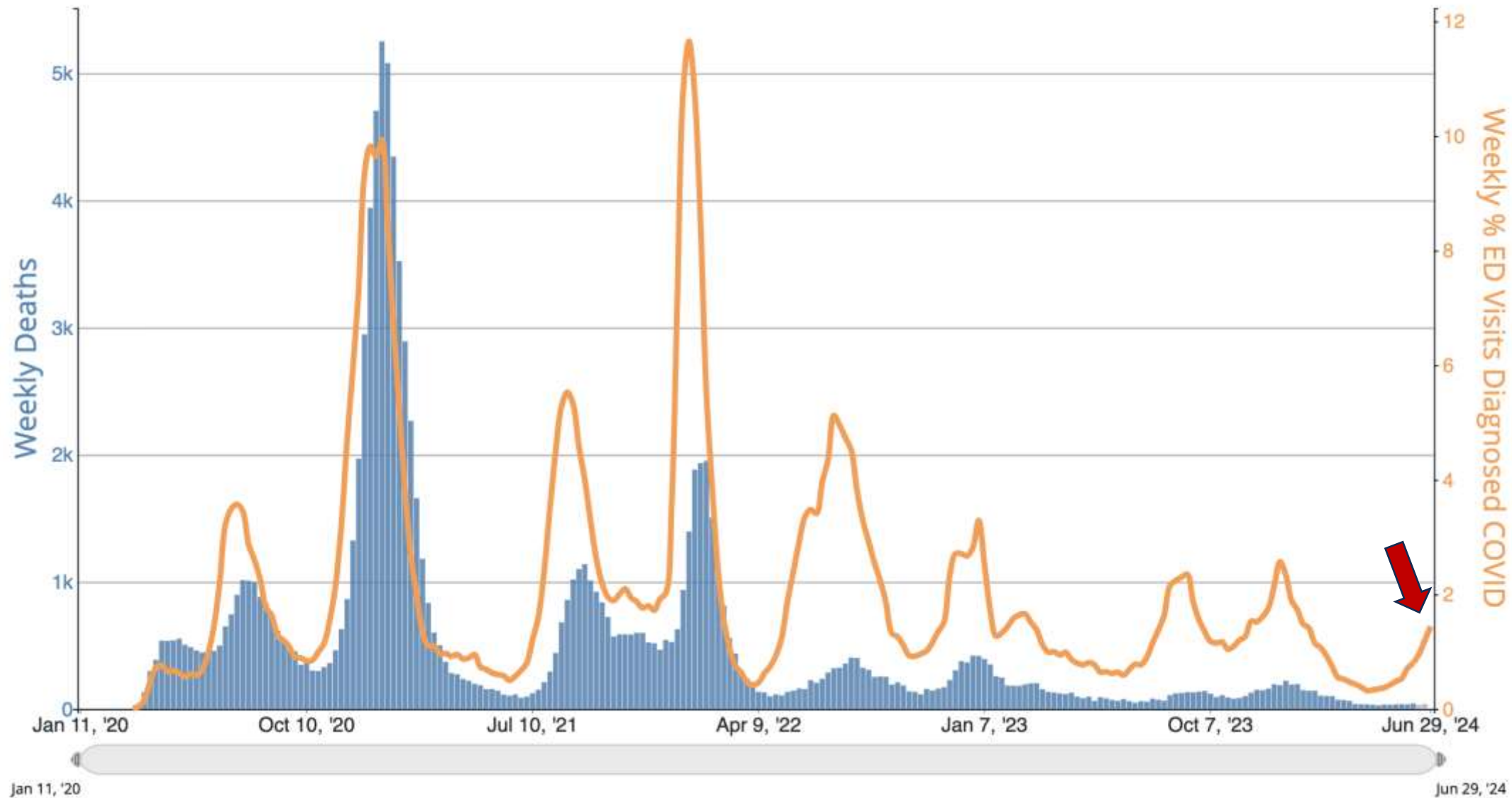
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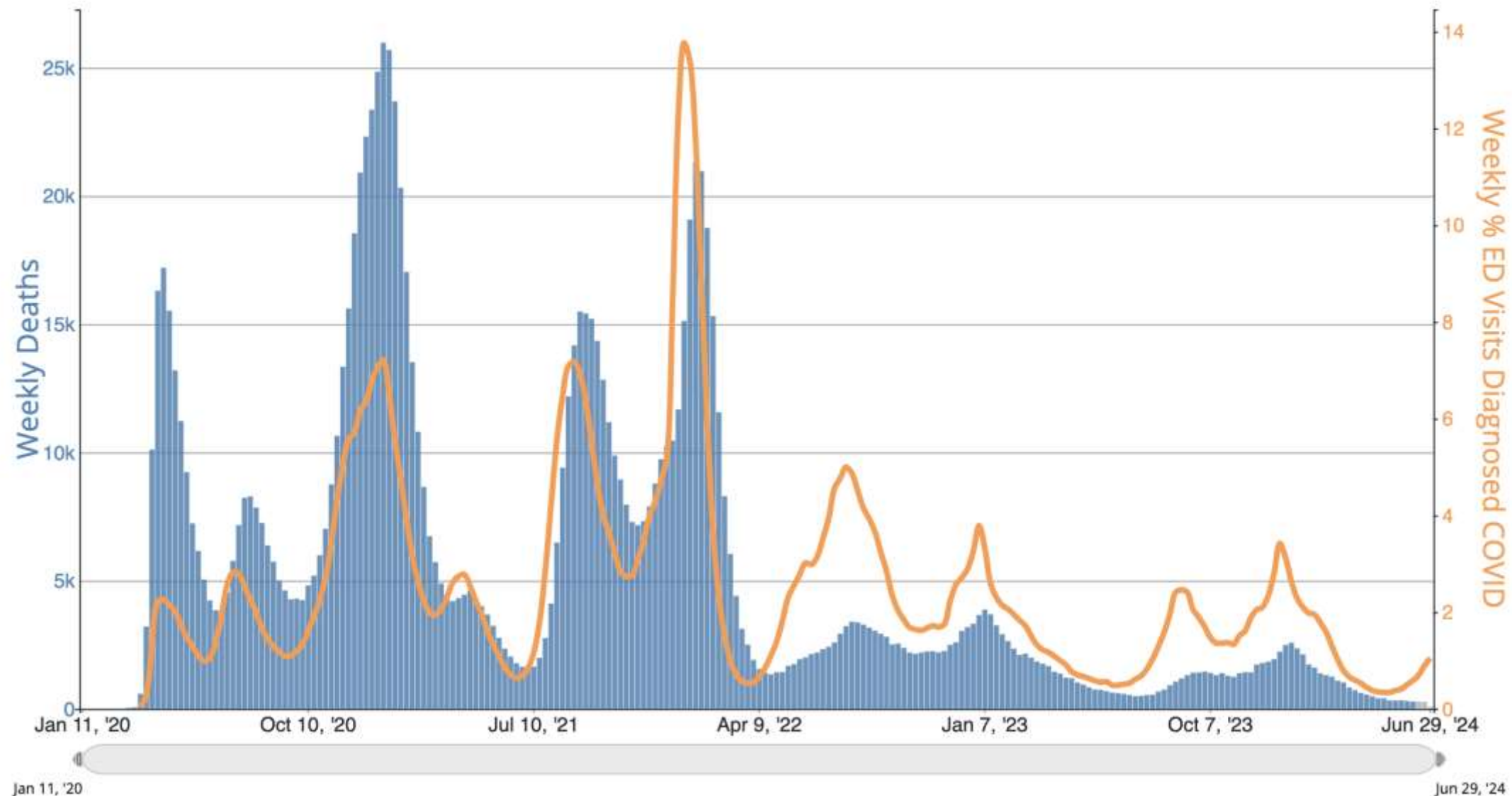
Behind the stunning job losses in Hollywood: 'The audience has moved on'

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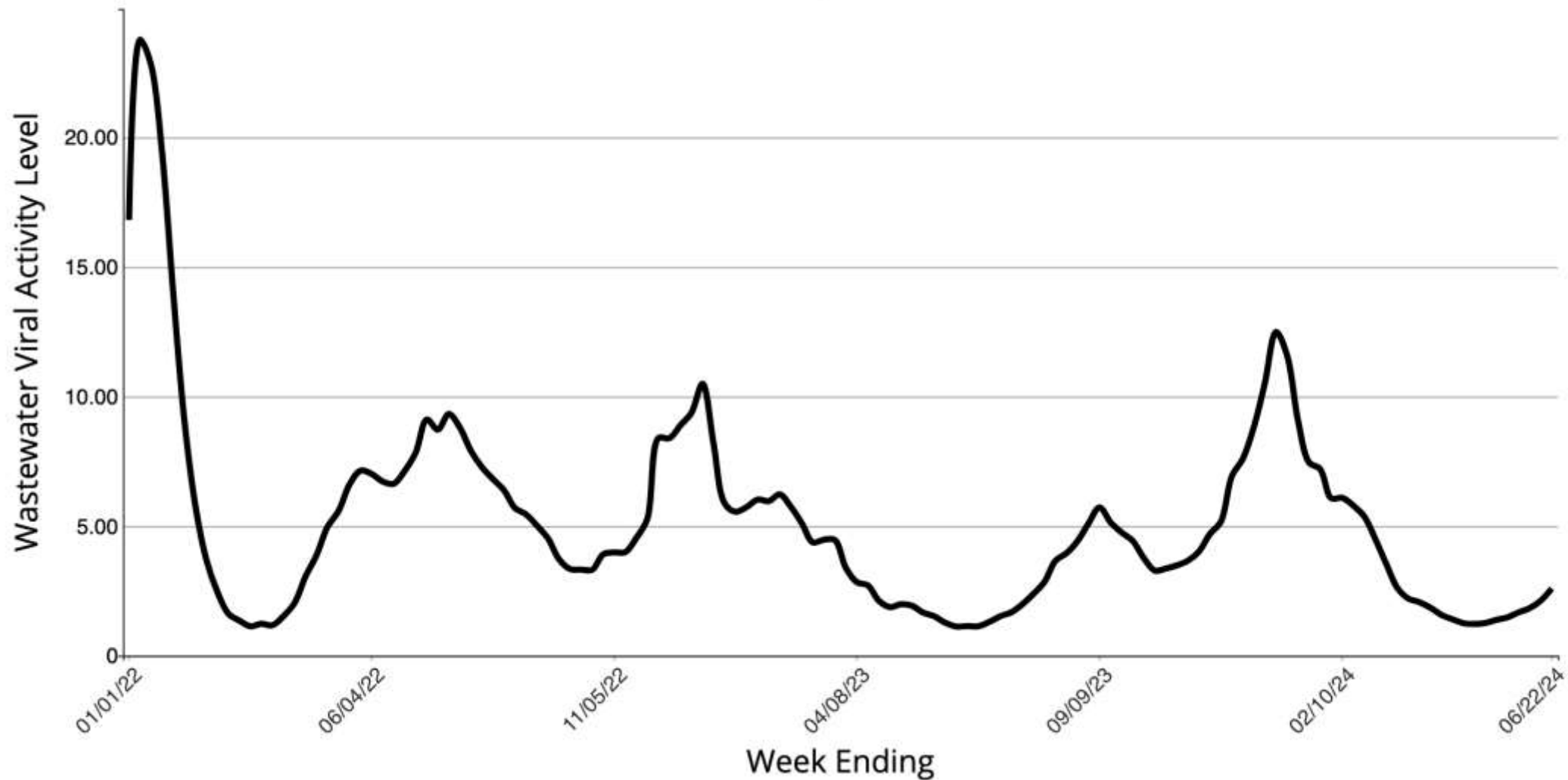
Provisional COVID-19 Deaths and Percentage of Emergency Department (ED) Visits Diagnosed as COVID-19, by Week, in California, Reported to CDC



Provisional COVID-19 Deaths and Percentage of Emergency Department (ED) Visits Diagnosed as COVID-19, by Week, in The United States, Reported to CDC



COVID-19 Wastewater Viral Activity Level Over Time, United States



WastewaterSCAN Dashboard

National

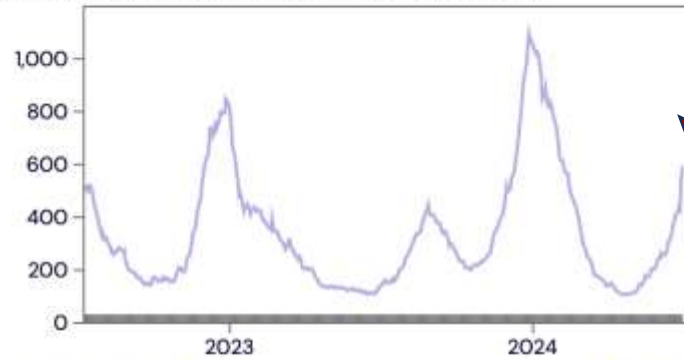
Data for last 24 months 07/09/2022 – 07/09/2024 (731 days)

Last 24 months

Download PDF

SARS-CoV-2 High

Upward trend in the last 21 days and high concentration

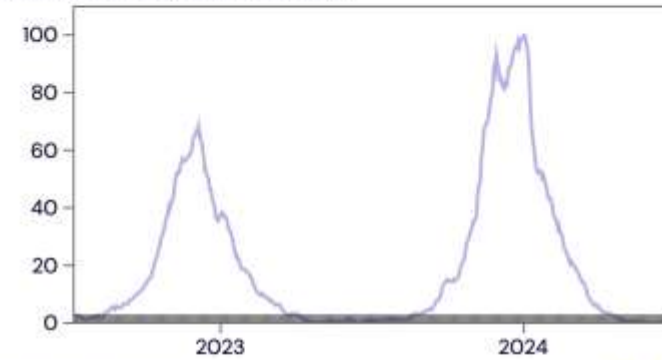


• Sample collected — SARS-CoV-2

[See details >](#)

Respiratory syncytial virus (RSV) Low

Pathogen is seasonal and not in onset

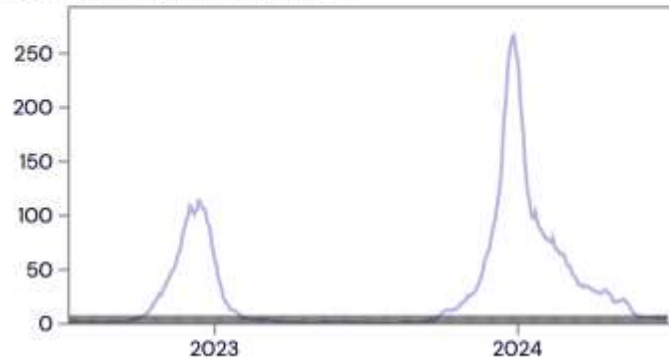


• Sample collected — RSV

[See details >](#)

Influenza A Low

Pathogen is seasonal and not in onset

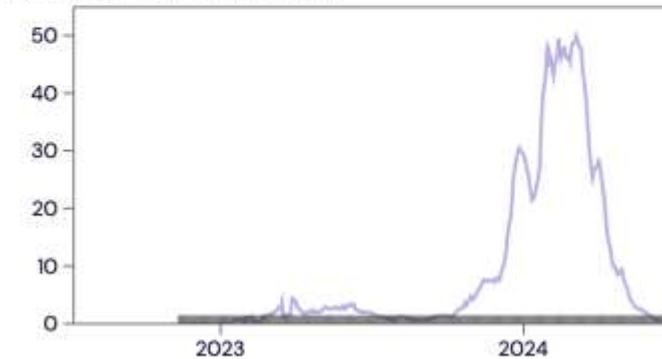


• Sample collected — Influenza A

[See details >](#)

Influenza B Low

Pathogen is seasonal and not in onset

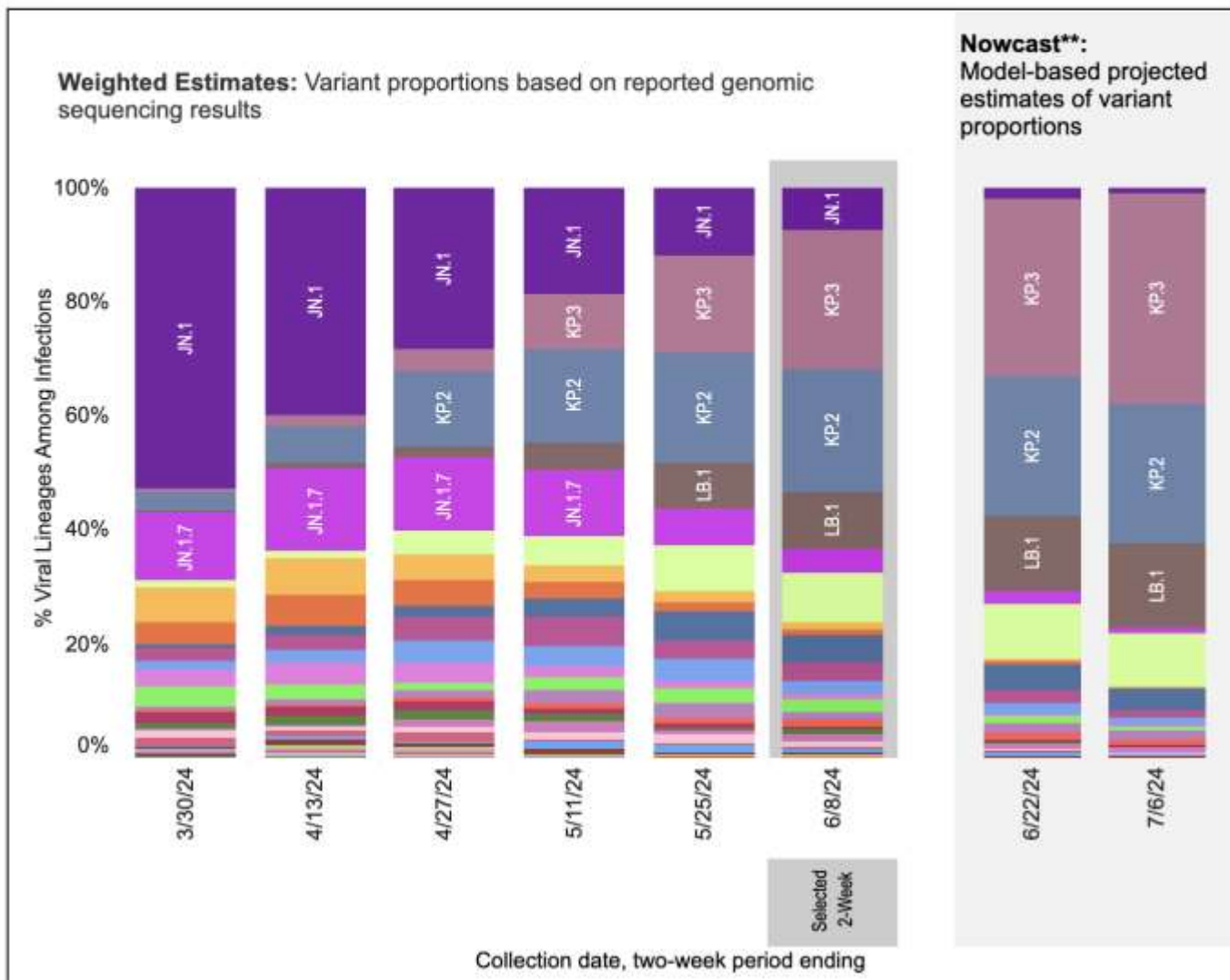


• Sample collected — Influenza B

[See details >](#)

Weighted Estimates in United States for 2-Week Periods in 3/17/2024 – 7/6/2024

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



Weighted Estimates in United States for 5/26/2024 – 6/8/2024

		USA	
WHO label	Lineage #	%Total	95%CI
Omicron	KP.3	24.5%	18.4-31.6%
	KP.2	21.5%	17.5-25.9%
	LB.1	10.0%	5.2-17.0%
	KP.1.1	8.9%	4.6-15.2%
	JN.1	7.4%	4.8-10.9%
	JN.1.16.1	4.8%	2.5-8.2%
	JN.1.7	† 4.0%	1.7-7.9%
	JN.1.16	3.1%	1.6-5.4%
	JN.1.18	2.2%	1.2-3.7%
	JN.1.11.1	2.1%	1.1-3.7%
	XDV.1	† 1.4%	0.2-5.0%
	KP.4.1	† 1.3%	0.4-3.4%
	JN.1.13.1	† 1.2%	0.3-3.0%
	KS.1	† 1.1%	0.4-2.6%
	KQ.1	† 1.1%	0.1-3.7%
	JN.1.8.1	† 1.0%	0.3-2.4%
	JN.1.32	† 0.8%	0.0-4.4%
	KW.1.1	† 0.8%	0.2-2.2%
	XDP	† 0.6%	0.1-1.8%
	KV.2	† 0.3%	0.0-1.2%
	JN.1.4.3	† 0.3%	0.0-1.5%
	BA.2	† 0.0%	0.0-0.4%

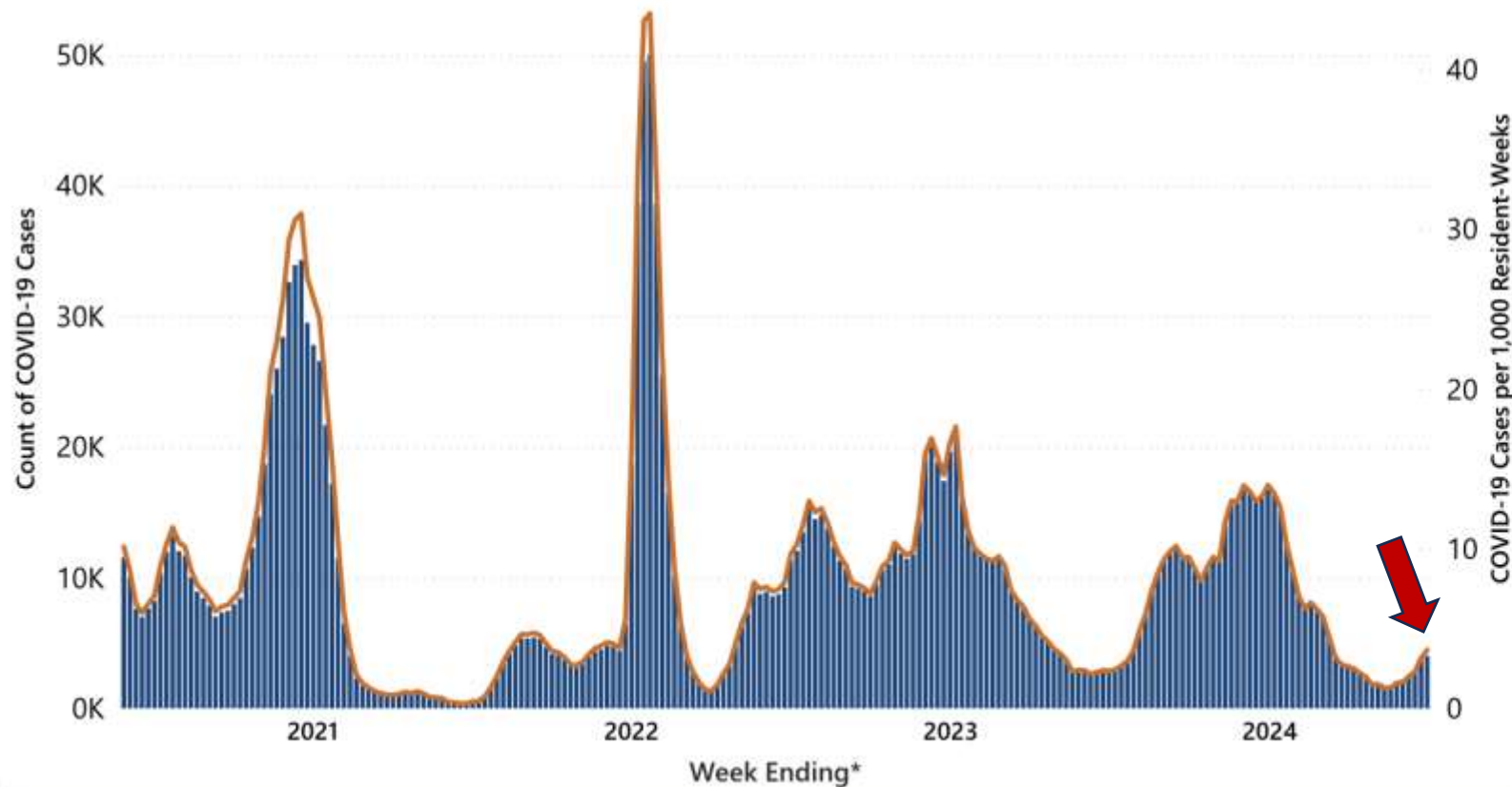
Confirmed COVID-19 Cases among Residents and Rate per 1,000 Resident-Weeks in Nursing Homes, by Week—United States



Confirmed COVID-19 Cases among Residents and Rate per 1,000 Resident-Weeks in Nursing Homes, by Week—United States



● Count COVID-19 Cases — Rate of COVID-19 Cases



Display by FEMA/HHS Region

All

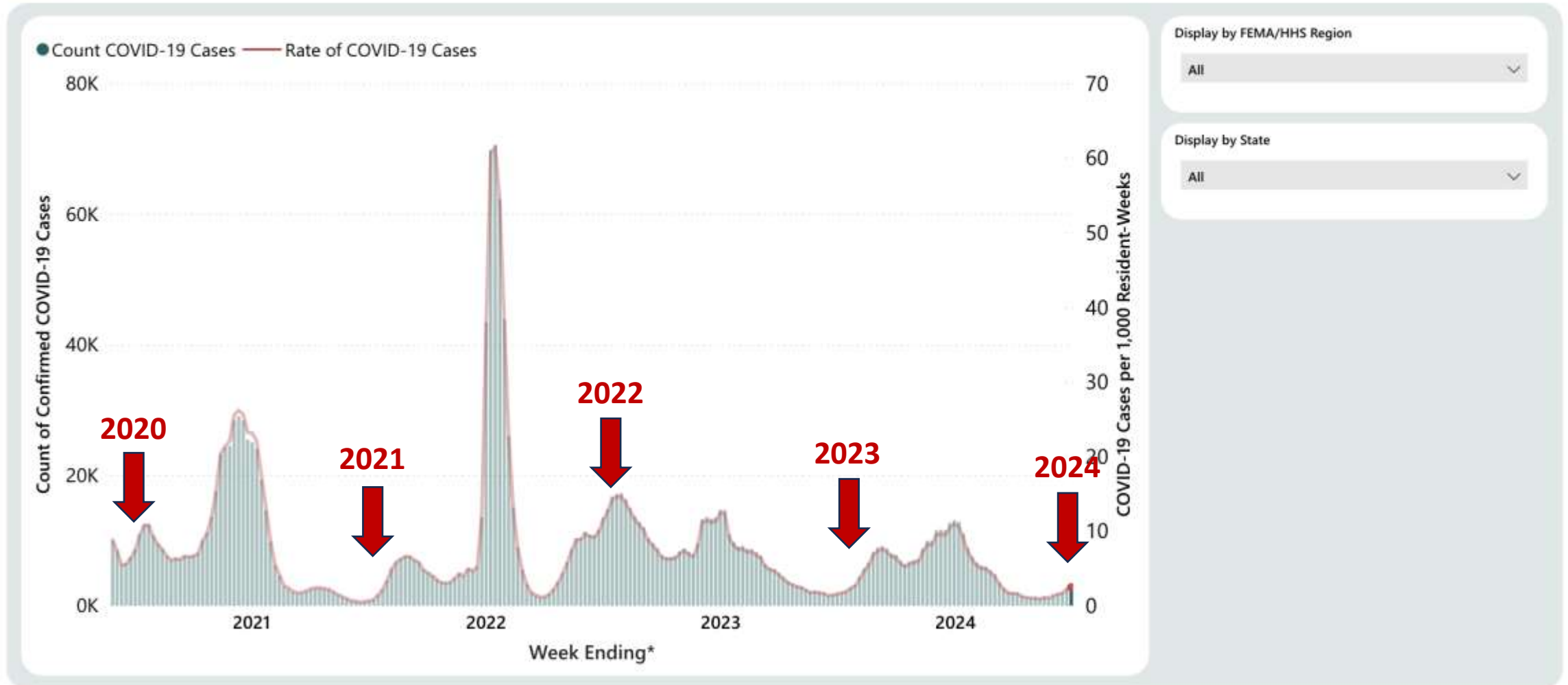
Display by State

All

Confirmed COVID-19 Cases among Staff and Rate per 1,000 Resident-Weeks in Nursing Homes, by Week—United States



Confirmed COVID-19 Cases among Staff and Rate per 1,000 Resident-Weeks in Nursing Homes, by Week — United States

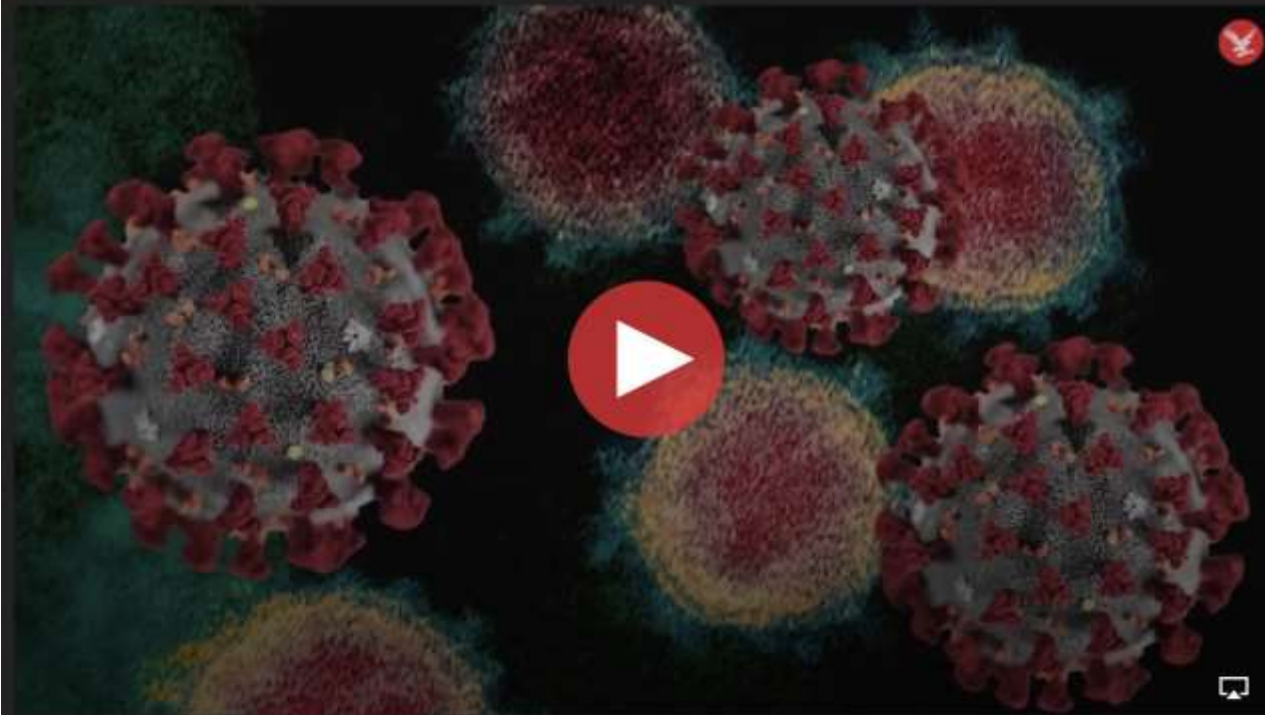




Doctors issue summer warning as new FLiRT Covid variant spreading across the UK

People infected with the FLiRT and LB.1 variants test positive on standard PCR Covid tests

Camilla Foster • Tuesday 09 July 2024 08:57 BST



Summer COVID surge



[Newsroom Home](#)

CDC Newsroom Releases

[Historical News Releases](#)

[CDC Reports Fourth Human Case of H5 Bird Flu Tied to Dairy Cow Outbreak](#)

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CDC Reports Fourth Human Case of H5 Bird Flu Tied to Dairy Cow Outbreak

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Press Release

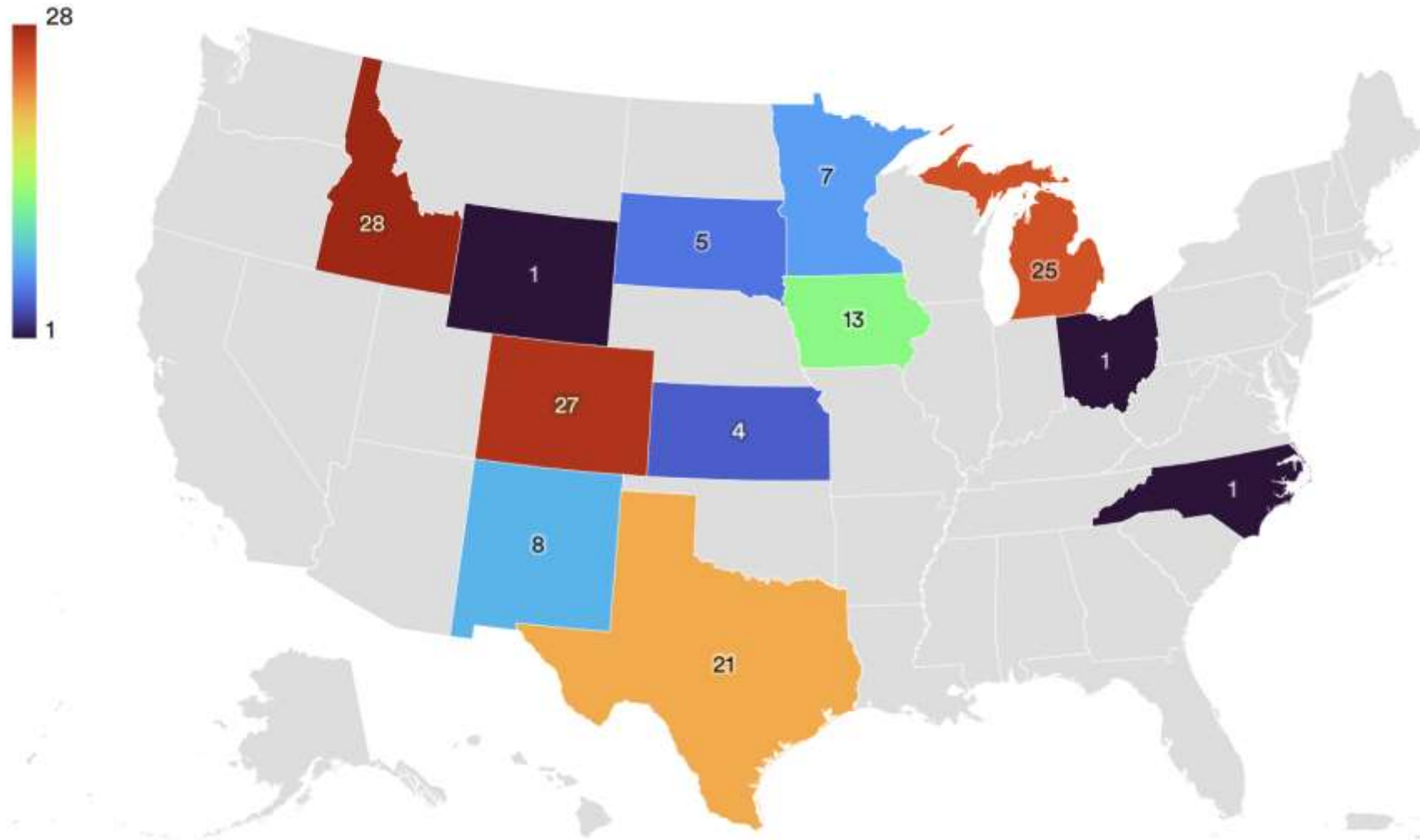
For Immediate Release: July 3rd, 2024

Contact: [Media Relations](#)
(404) 639-3286

July 3, 2024 – A human case of [highly pathogenic avian influenza](#) (HPAI) A(H5) (“H5 bird flu”) virus infection in the United States has been identified in the state of Colorado. This is the fourth case associated with an ongoing multistate outbreak of A(H5N1) in dairy cows and the first in Colorado. Previous cases were reported in [Texas](#) (1) and [Michigan](#) (2). As with previous cases, the person is a worker on a dairy farm where cows tested positive for A(H5N1) virus. The person reported eye symptoms only, received oseltamivir treatment, and has recovered. CDC has been watching [influenza surveillance systems](#) closely, particularly in affected states, and there has been no sign of unusual influenza activity in people, including in syndromic surveillance.

States with confirmed cases of H5N1 in livestock

Number of confirmed cases of avian influenza in livestock (mainly dairy cattle)



Most recent case July 02, 2024

Map: J. Emory Parker/STAT • Source: USDA, state agencies

Bird flu concern prompts US to award Moderna \$176 million for vaccine development

By Julie Steenhuysen and Leah Douglas

July 2, 2024 11:01 AM CDT · Updated 7 days ago



[1/2] Test tubes are seen in front of a displayed Moderna logo in this illustration taken, May 21, 2021. REUTERS/Dado Ruvic/Illustration/File Photo [Purchase Licensing Rights](#)



The Economist explains

Why Finland and others are vaccinating people against bird flu

The virus is spreading undetected in mammals




PHOTOGRAPH: GETTY IMAGES

[nature](#) > [articles](#) > article

Article | Published: 08 July 2024

Pathogenicity and transmissibility of bovine H5N1 influenza virus

[Amie J. Einfeld](#), [Asim Biswas](#), [Lizheng Guan](#), [Chunyang Gu](#), [Tadashi Maemura](#), [Sanja Trifkovic](#), [Tong Wang](#), [Lavanya Babujee](#), [Randall Dahn](#), [Peter J. Halfmann](#), [Tera Barnhardt](#), [Gabriele Neumann](#), [Yasuo Suzuki](#), [Alexis Thompson](#), [Amy K. Swinford](#), [Kiril M. Dimitrov](#), [Keith Poulsen](#) & [Yoshihiro Kawaoka](#) 

[Nature](#) (2024) | [Cite this article](#)

[Metrics](#)



We are providing an unedited version of this manuscript to give early access to its findings. Before final publication, the manuscript will undergo further editing. Please note there may be errors present which affect the content, and all legal disclaimers apply.

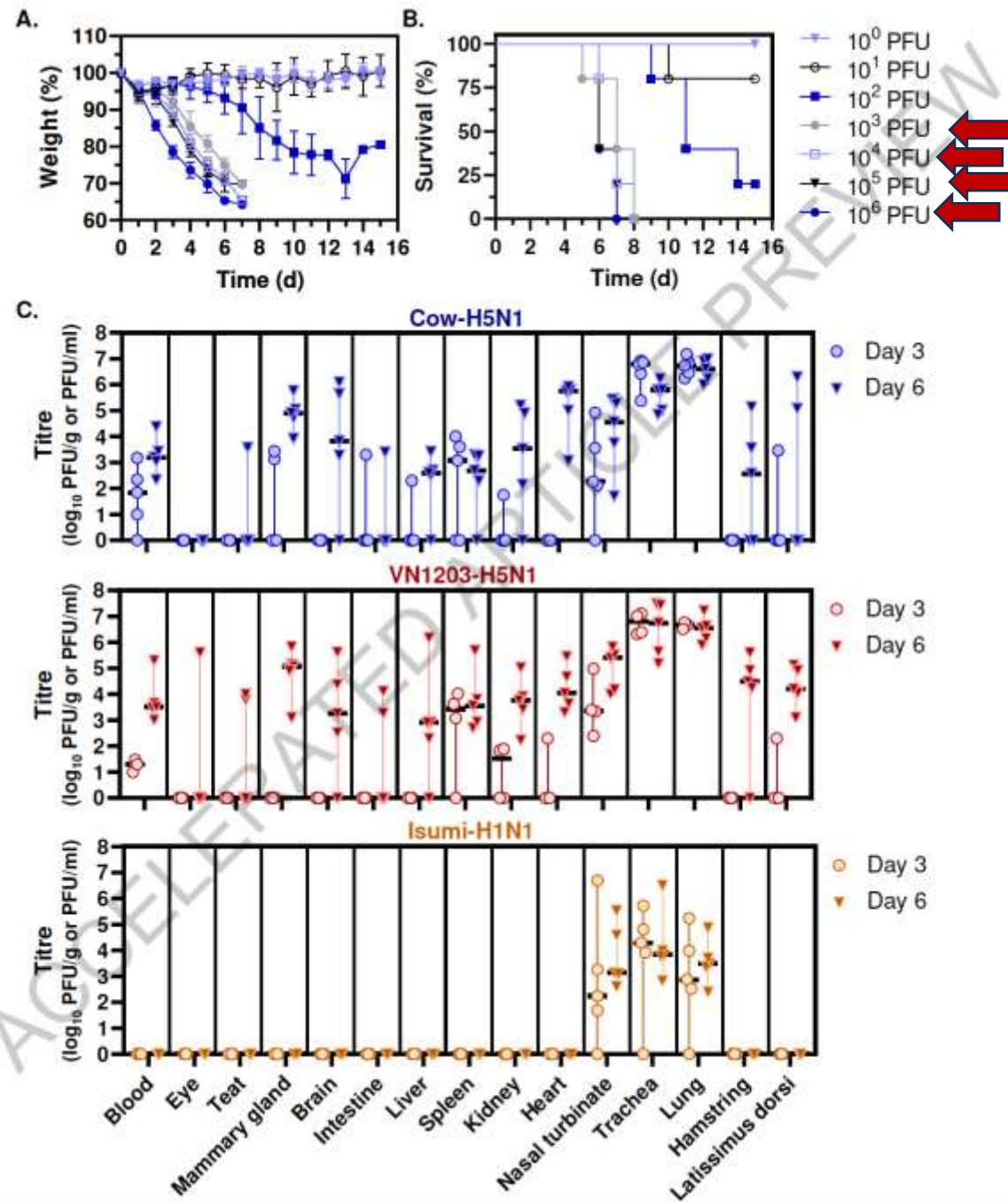
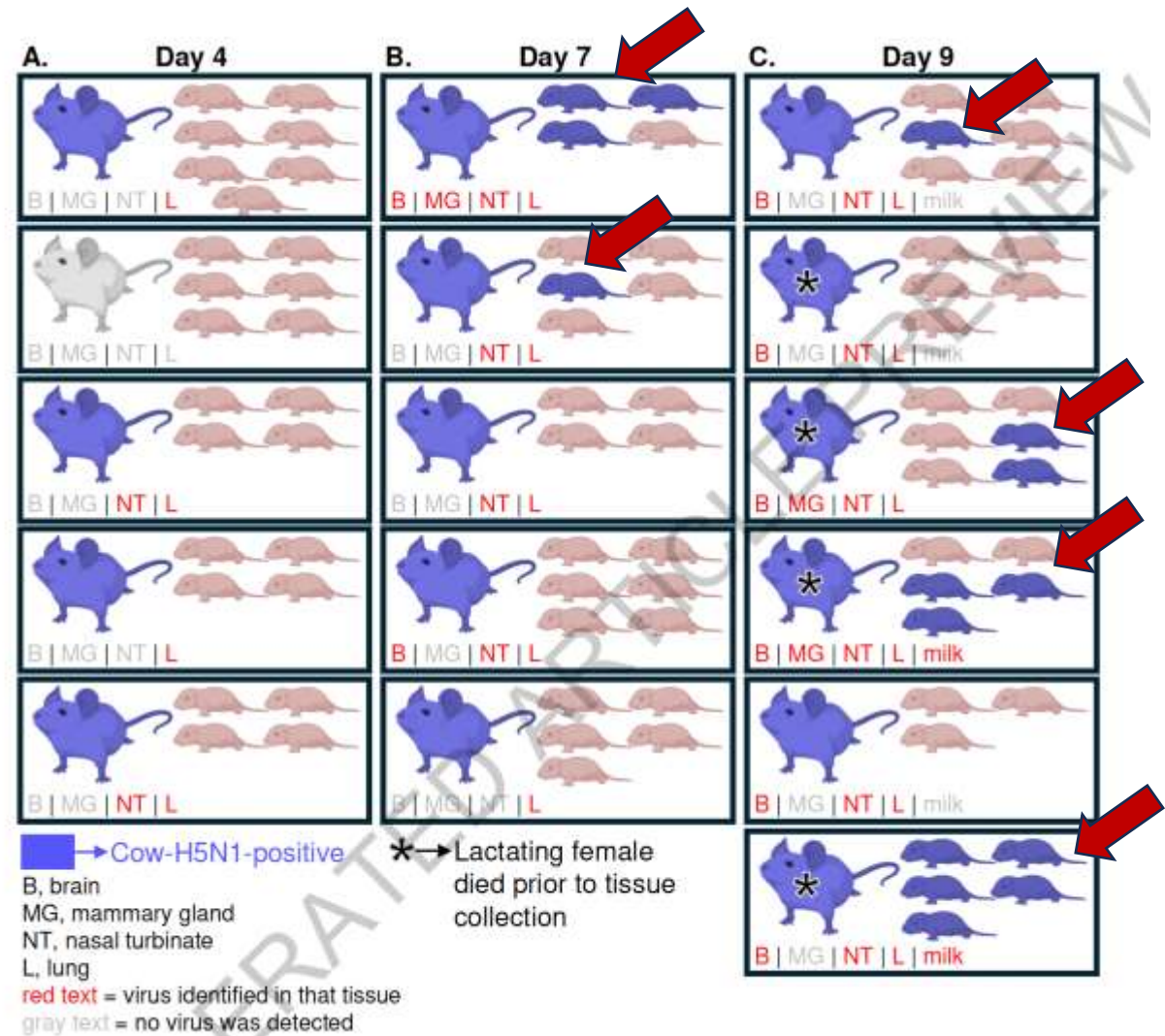
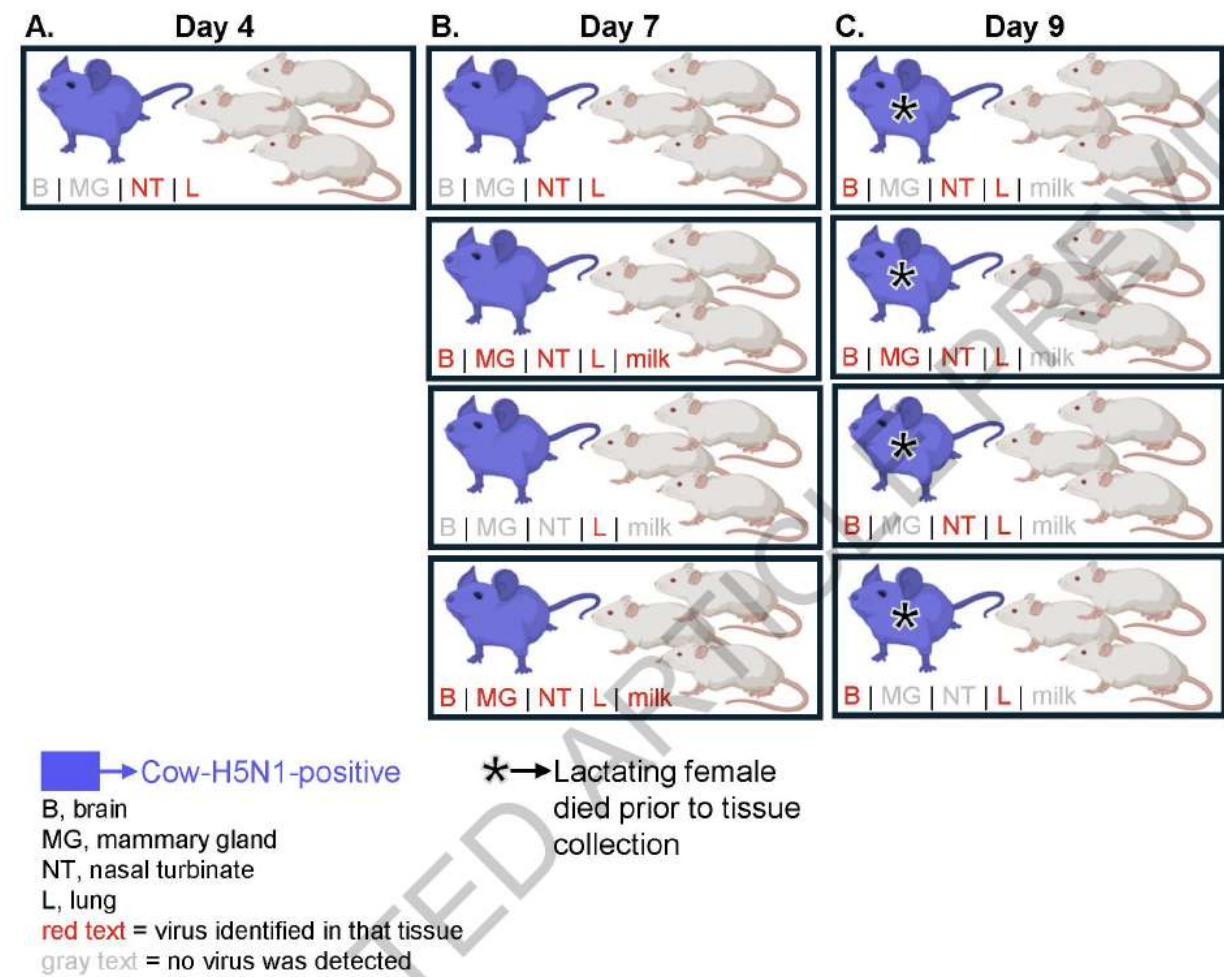


Figure 2. Pathogenicity and tissue tropism in mice intranasally inoculated with bovine H5N1 virus.

Figure 4. Transmission of bovine H5N1 virus from lactating female mice to offspring.



Extended Data Figure 5. Transmission of bovine H5N1 virus from lactating female mice to adult contacts.



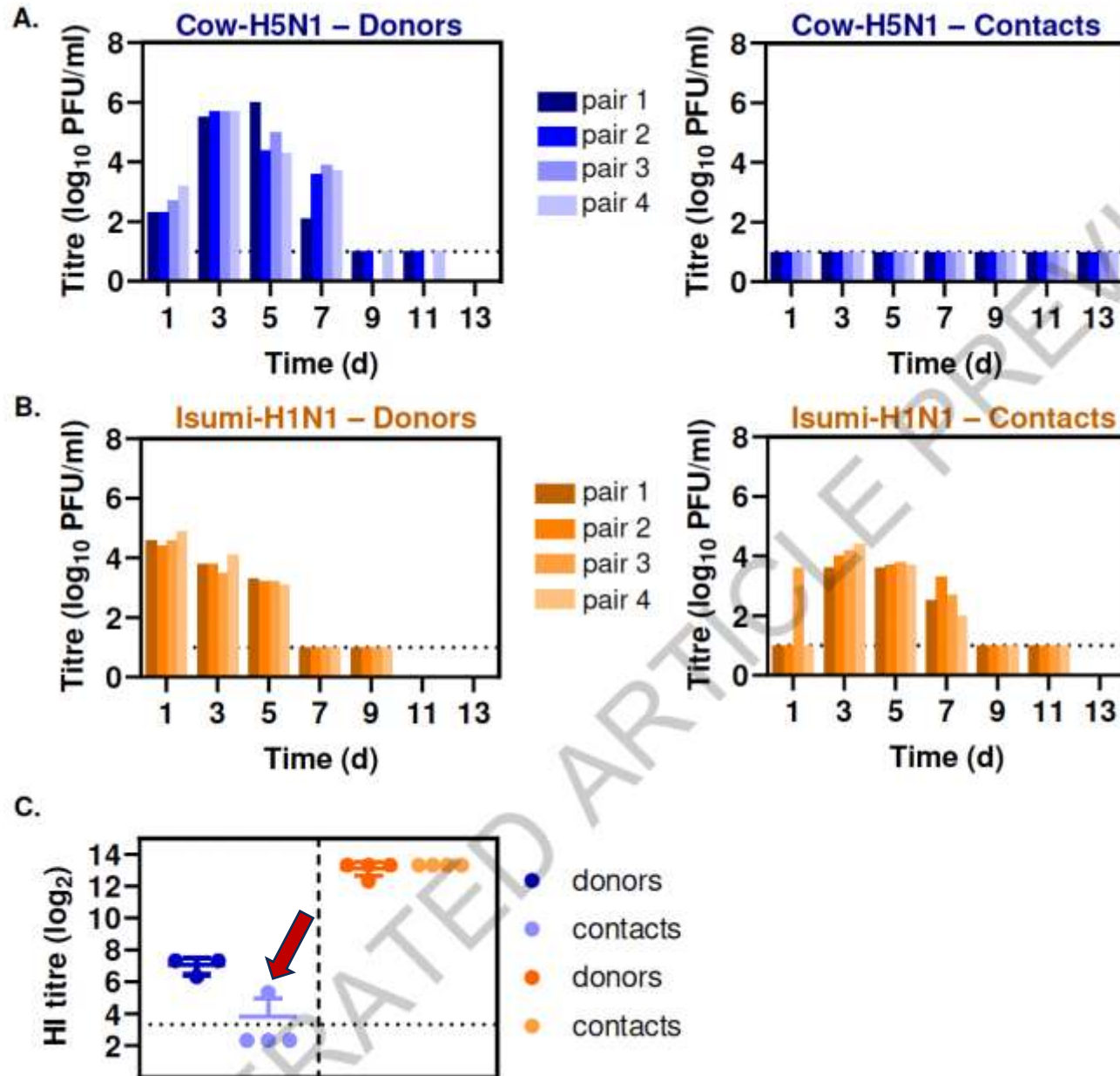
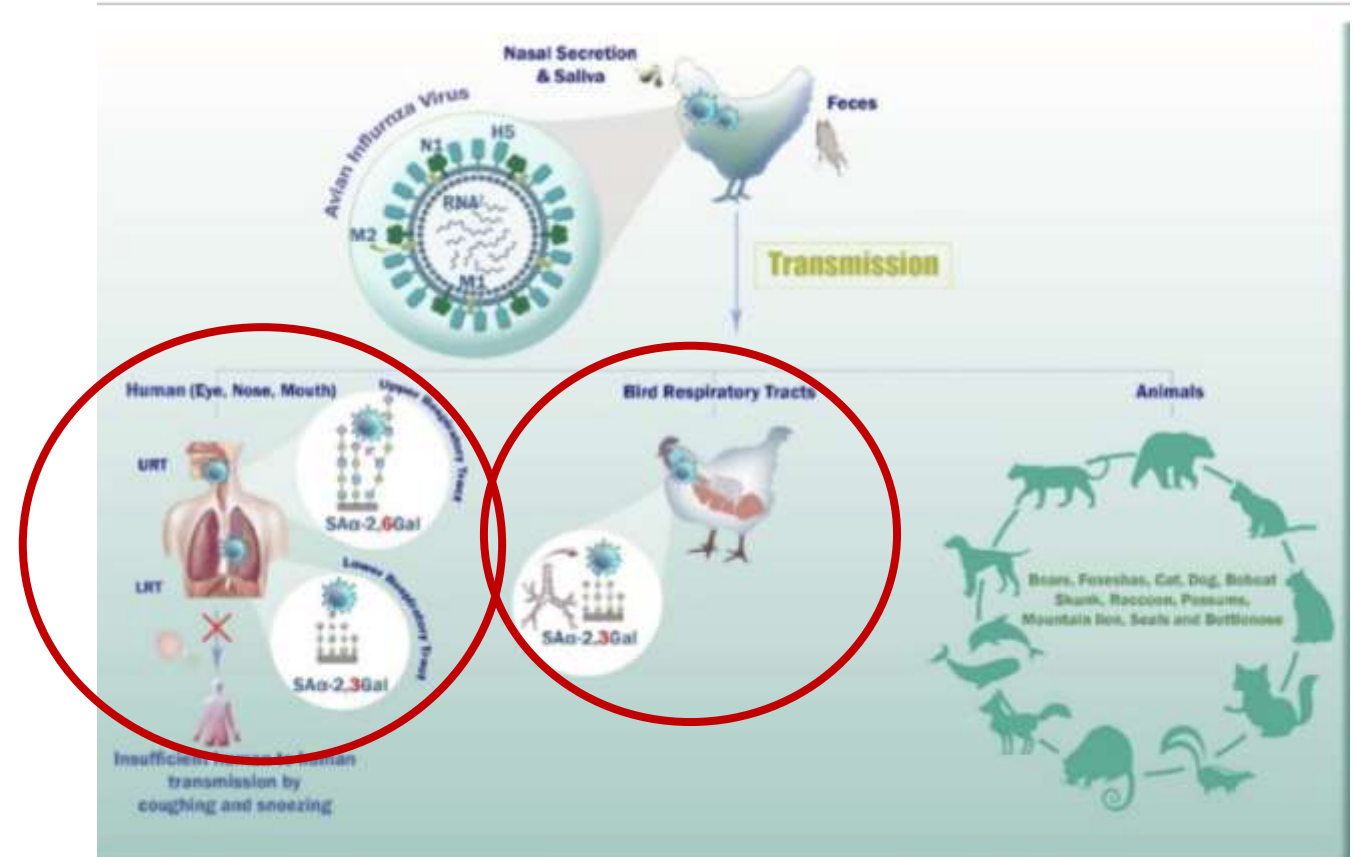
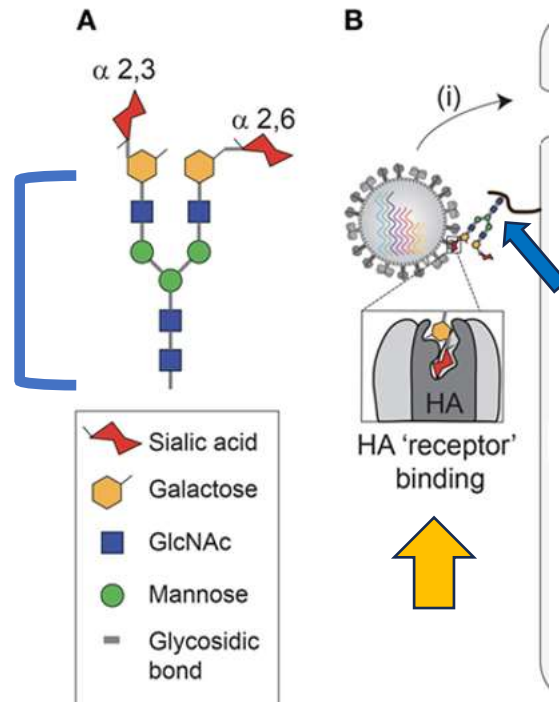


Figure 5. Bovine H5N1 virus transmits inefficiently by respiratory droplets in ferrets.

Sialylated glycan receptor binding!



<https://link.springer.com/article/10.1007/s11101-018-9581-1>

<https://www.sciencedirect.com/science/article/pii/S1477893923000984?via%3Dihub>

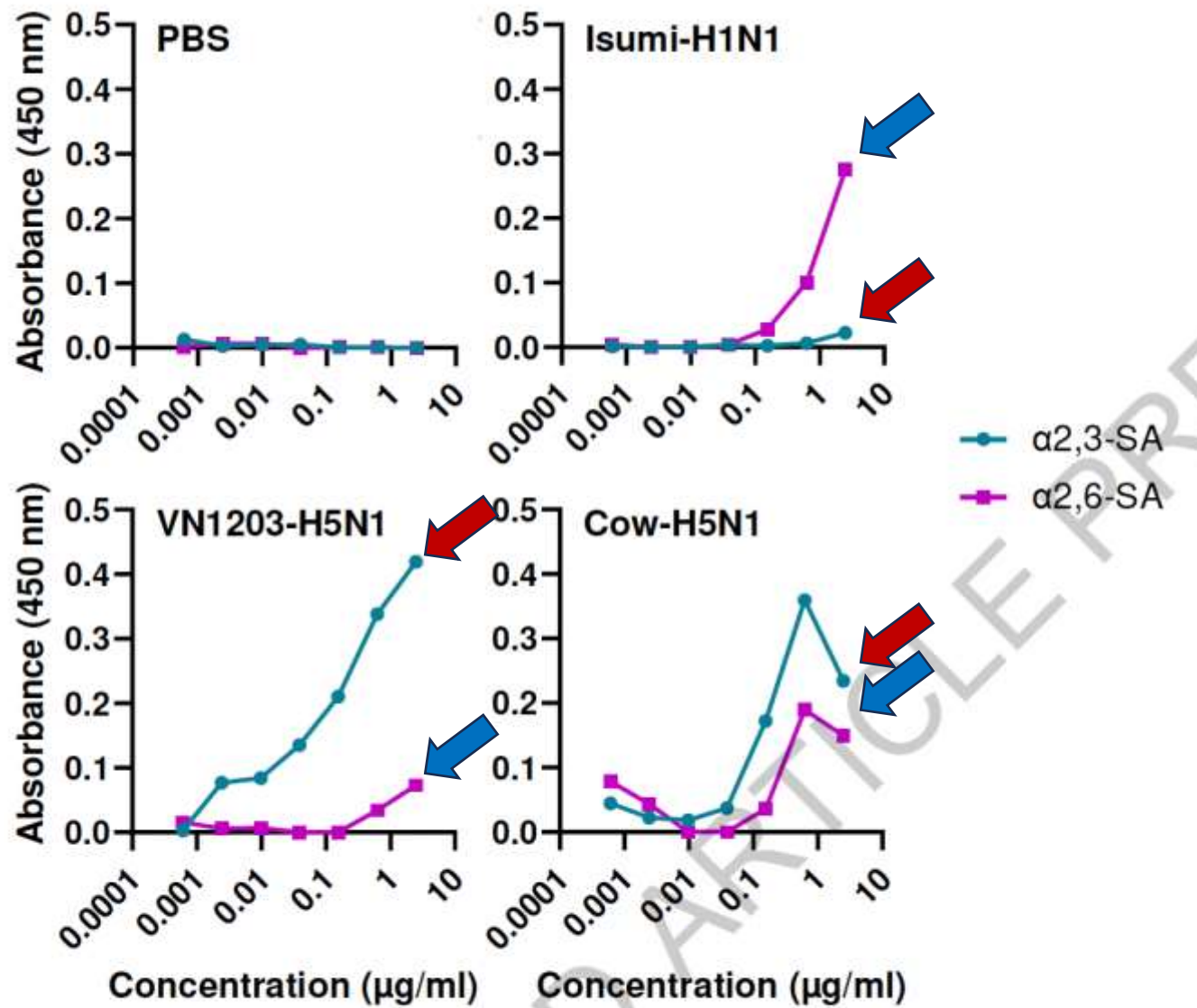


Figure 6. Bovine H5N1 virus binds to both $\alpha 2,3$ and $\alpha 2,6$ sialic acid residues.





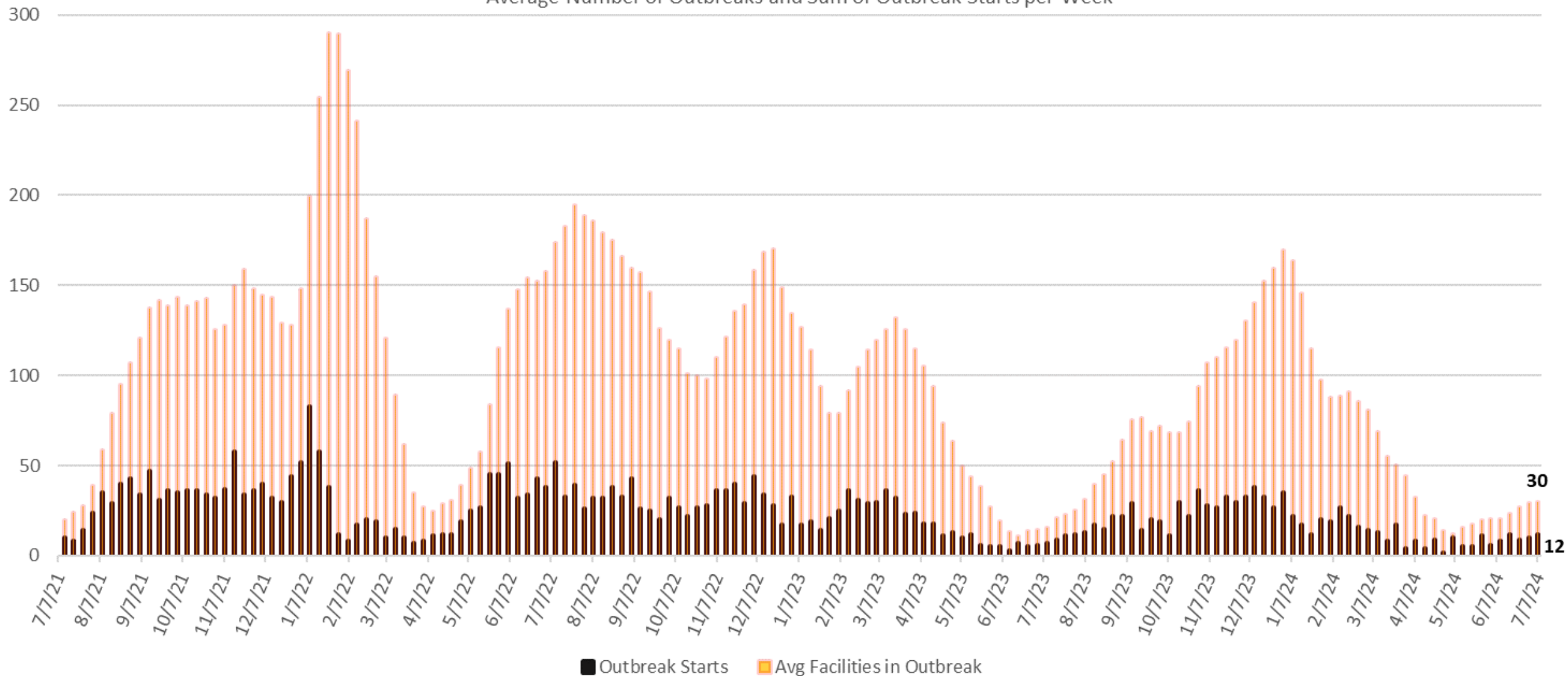
I am shocked!..shocked to find that gambling is going on in here!

PUBLIC HEALTH & COALITION LEADERS UPDATES (ALL)

ICAP LTC & ALF - JUAN TERAN

Nebraska LTC Facilities in COVID Outbreak by Week

Average Number of Outbreaks and Sum of Outbreak Starts per Week

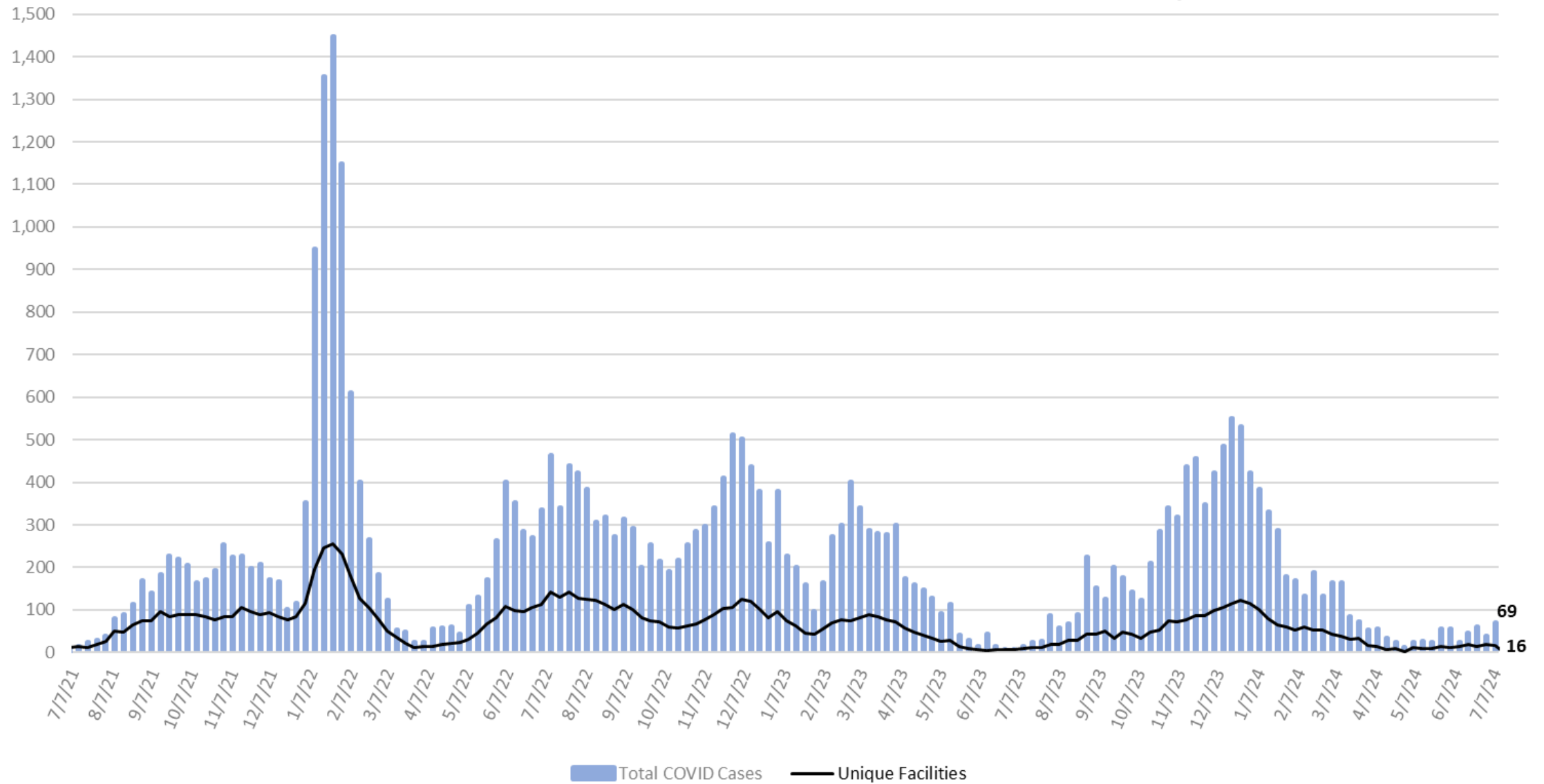


Source: Unofficial Counts Compiled by Nebraska ICAP based on data reported by facilities and DHHS; Actual Numbers may vary slightly

Slide Credit: Dan German

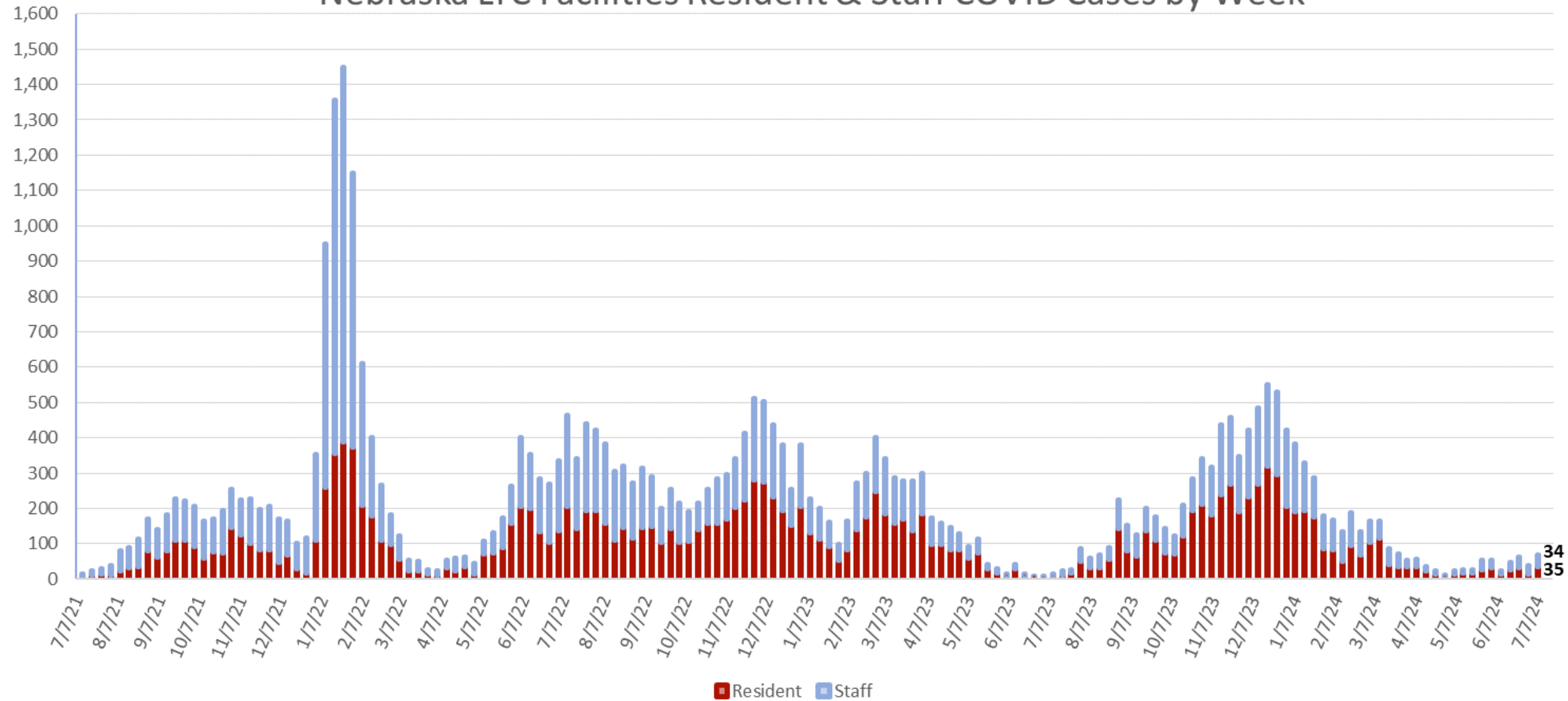


Nebraska LTC Resident & Staff COVID Cases & Facilities by Week



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

Nebraska LTC Facilities Resident & Staff COVID Cases by Week

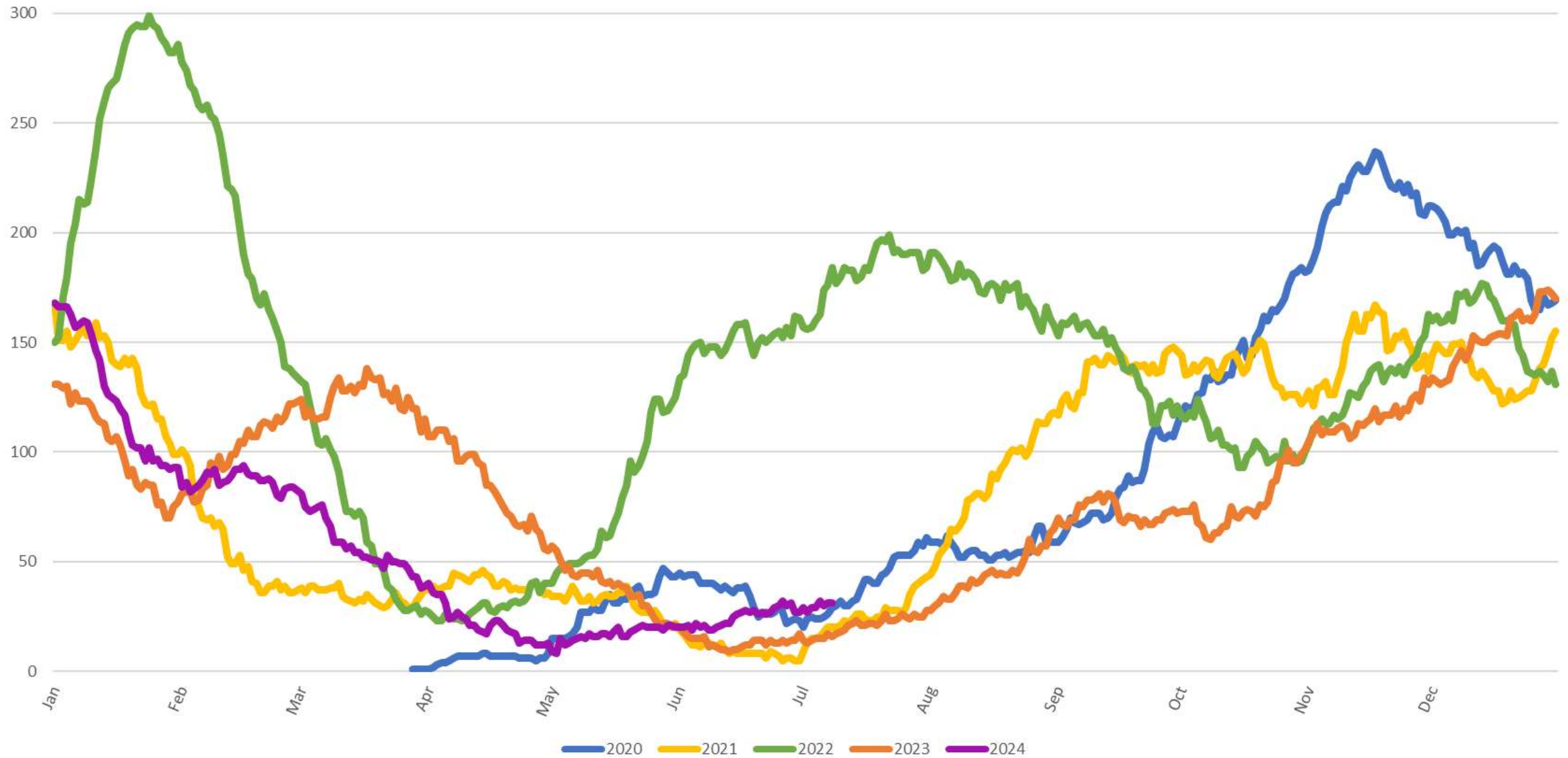


Source: Unofficial Counts Compiled by Nebraska ICAP based on data reported by facilities and DHHS; Actual Numbers may vary slightly

Slide Credit: Dan German



Nebraska LTC Facilities in COVID Outbreak



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

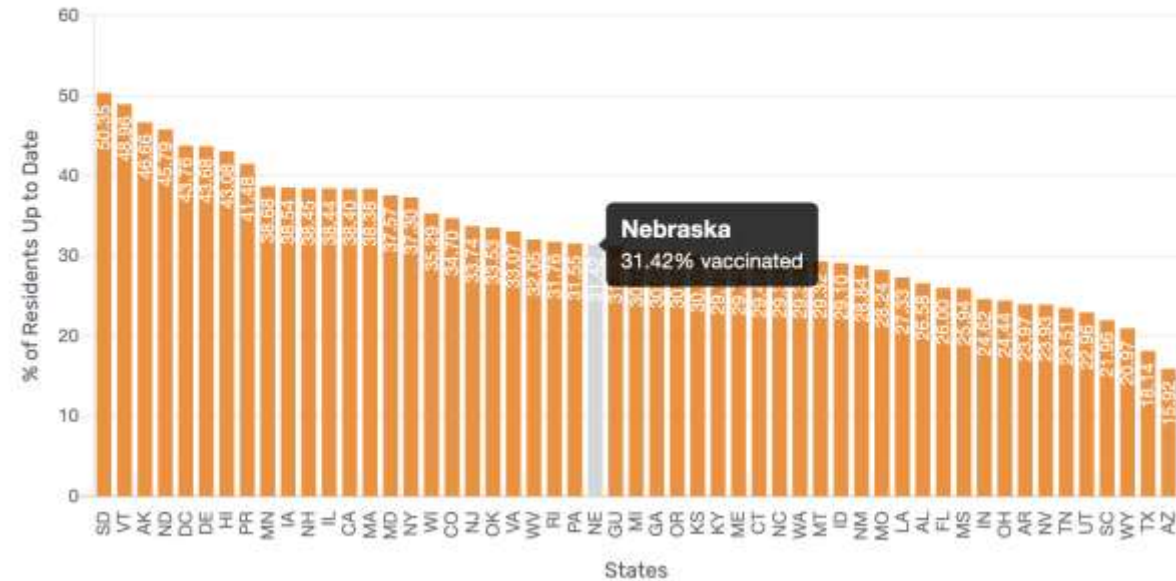
Slide Credit: Dan German



CMS Nursing Home Data

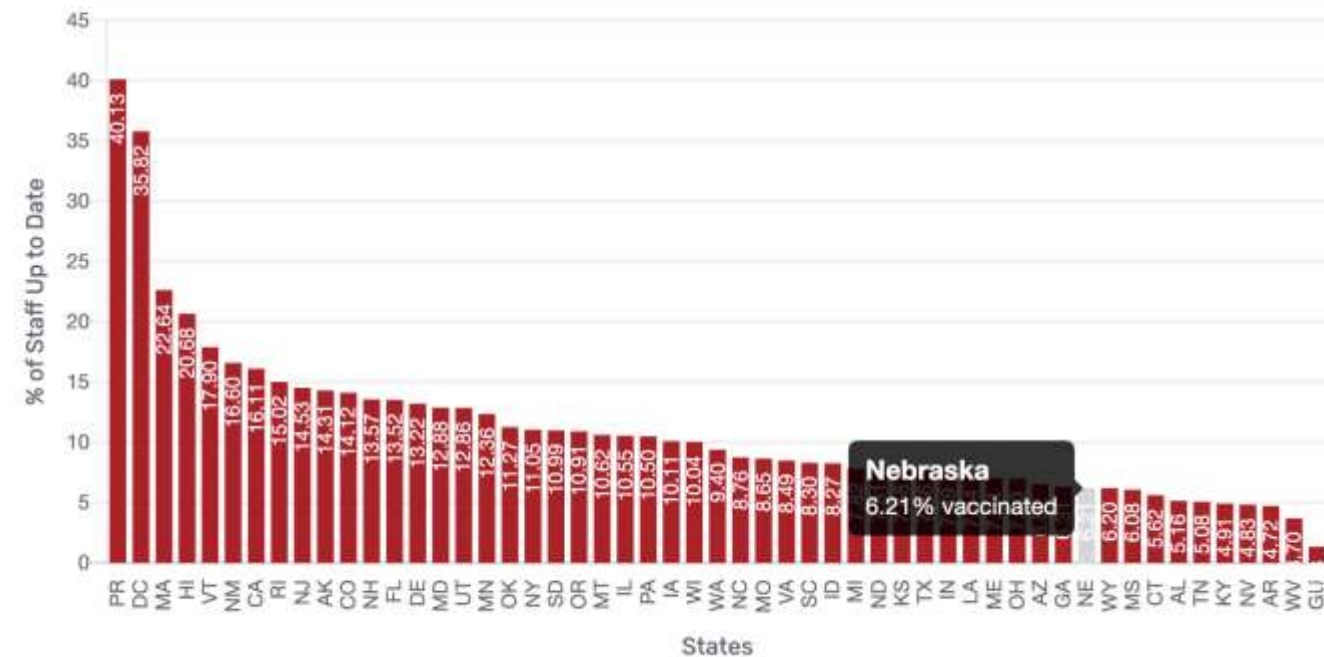
Percentage of Current Residents Up to Date with COVID-19 Vaccines per Facility

This shows the average percentage among facilities who have reported vaccination data in the current or prior week.

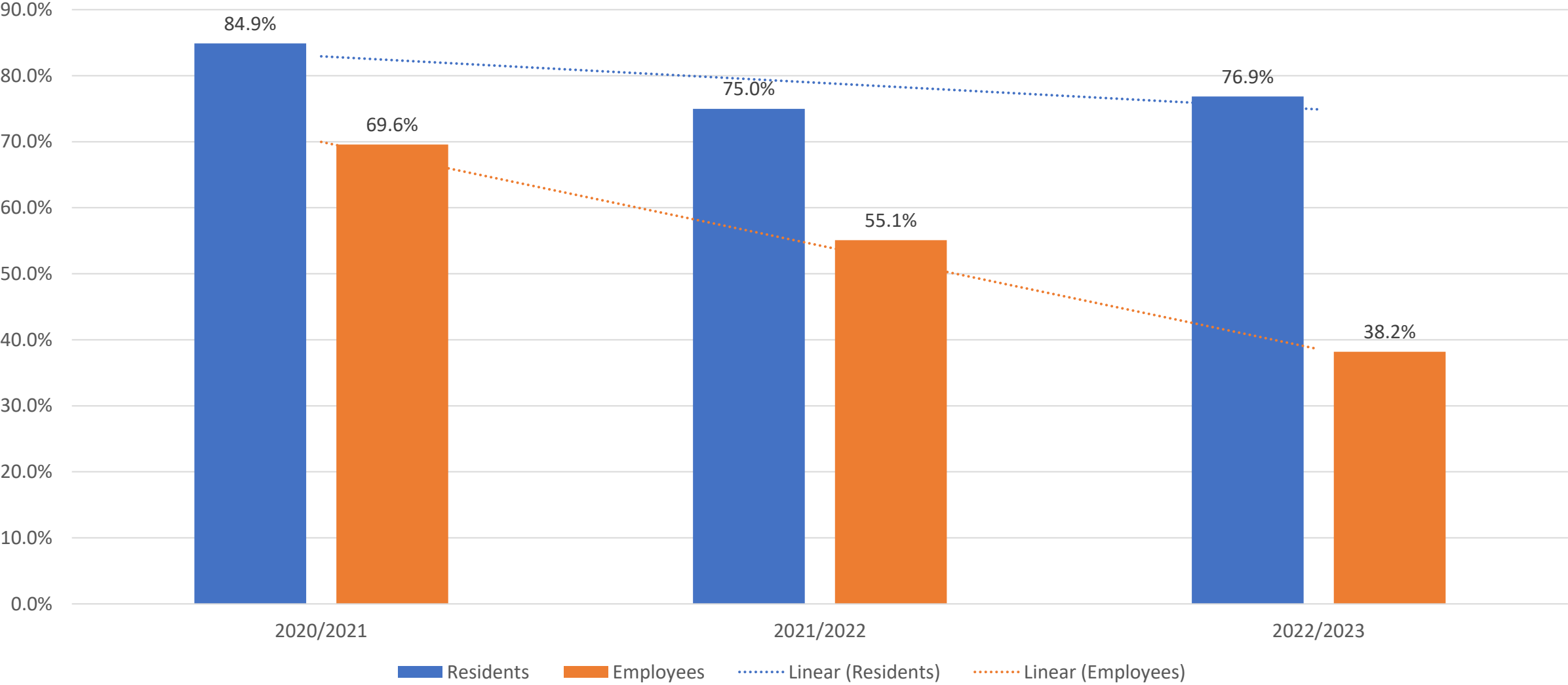


Percentage of Current Staff Up to Date with COVID-19 Vaccines per Facility

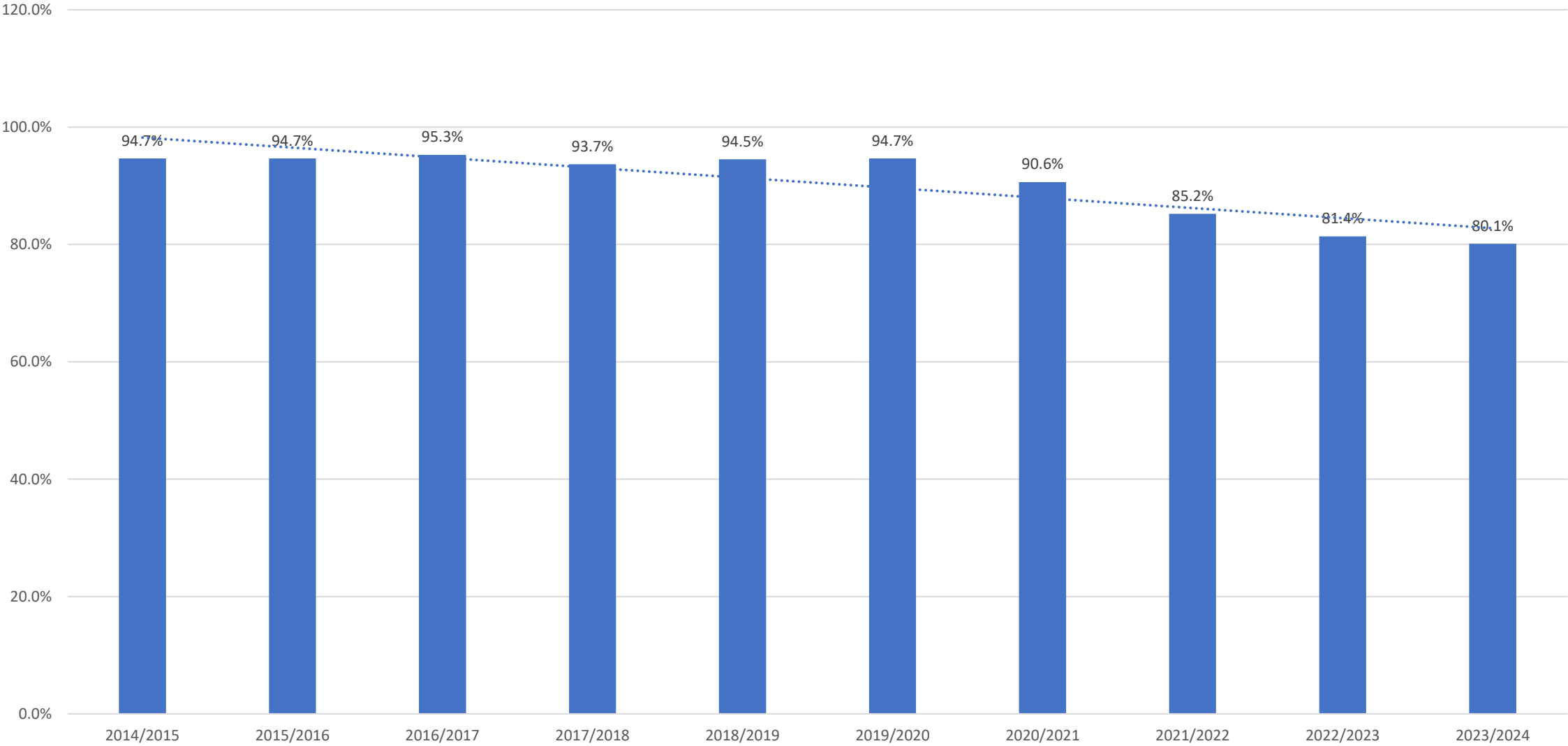
This shows the average percentage among facilities who have reported vaccination data in the current or prior week.



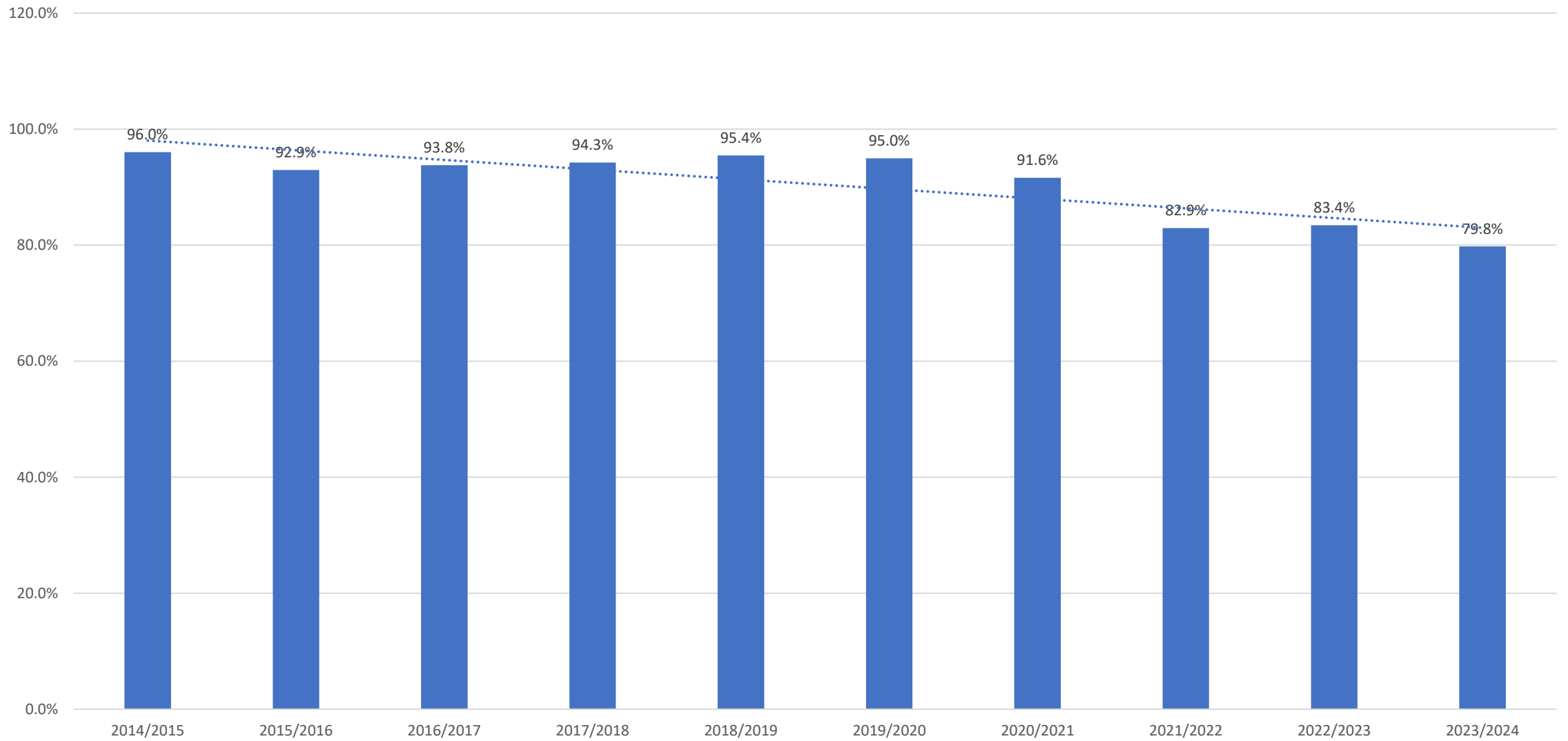
Influenza Long Term Care



Influenza Acute Care



Influenza CAH



25 Questions and Answers about Blood Culture Stewardship

Jonathan Ryder, MD
ICAP Webinar
June 12, 2024



Acute and Outpatient Facilities

**6.12.24 – Acute & OP – 25 Questions and
Answers about Blood Culture Stewardship**

Blood culture bottle shortage

<https://echo360.org/media/4bed8afc-4c40-404a-89d3-cbdd1aaf1152/public>

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