



# Ask Dr. Arwady

November 22, 2022



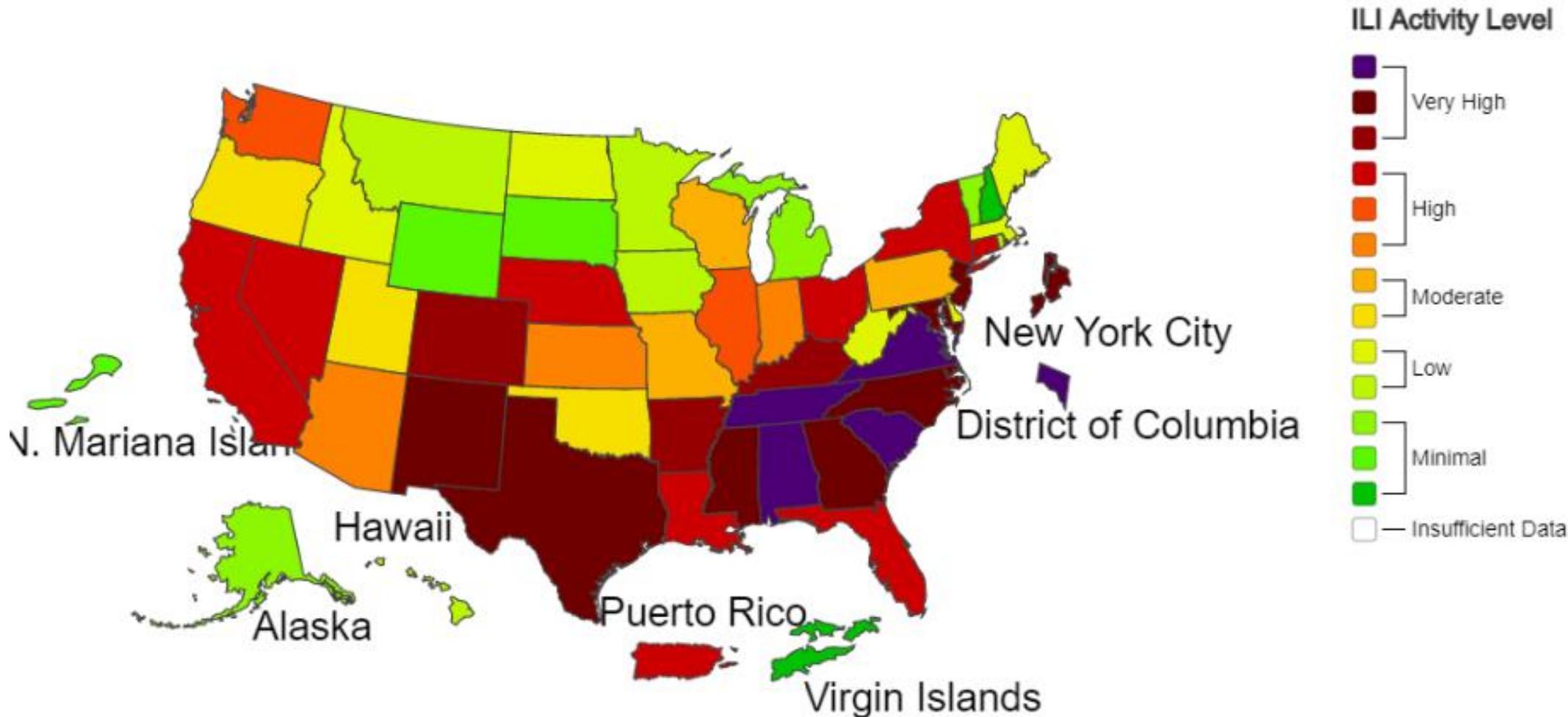
# U.S. Antibiotic Awareness Week, Nov. 18-24

The infographic is divided into two main sections. The left section, titled 'ANTIBIOTICS TREAT (FOR EXAMPLE):', features a light blue background and lists three conditions: STREP THROAT, URINARY TRACT INFECTIONS, and PNEUMONIA. Each condition is accompanied by a circular anatomical illustration. To the left of these illustrations are icons for medical supplies: a syringe, a pill bottle, and a blister pack. The right section, titled 'ANTIBIOTICS WON'T HELP:', has a light yellow background and lists three conditions: MOST BRONCHITIS, MANY SINUS INFECTIONS, and SOME EAR INFECTIONS. Each condition is accompanied by a circular anatomical illustration. To the right of these illustrations is a large red warning triangle with a black exclamation mark. At the bottom of both sections are logos for the CDC and the 'BE ANTIBIOTICS AWARE' campaign.

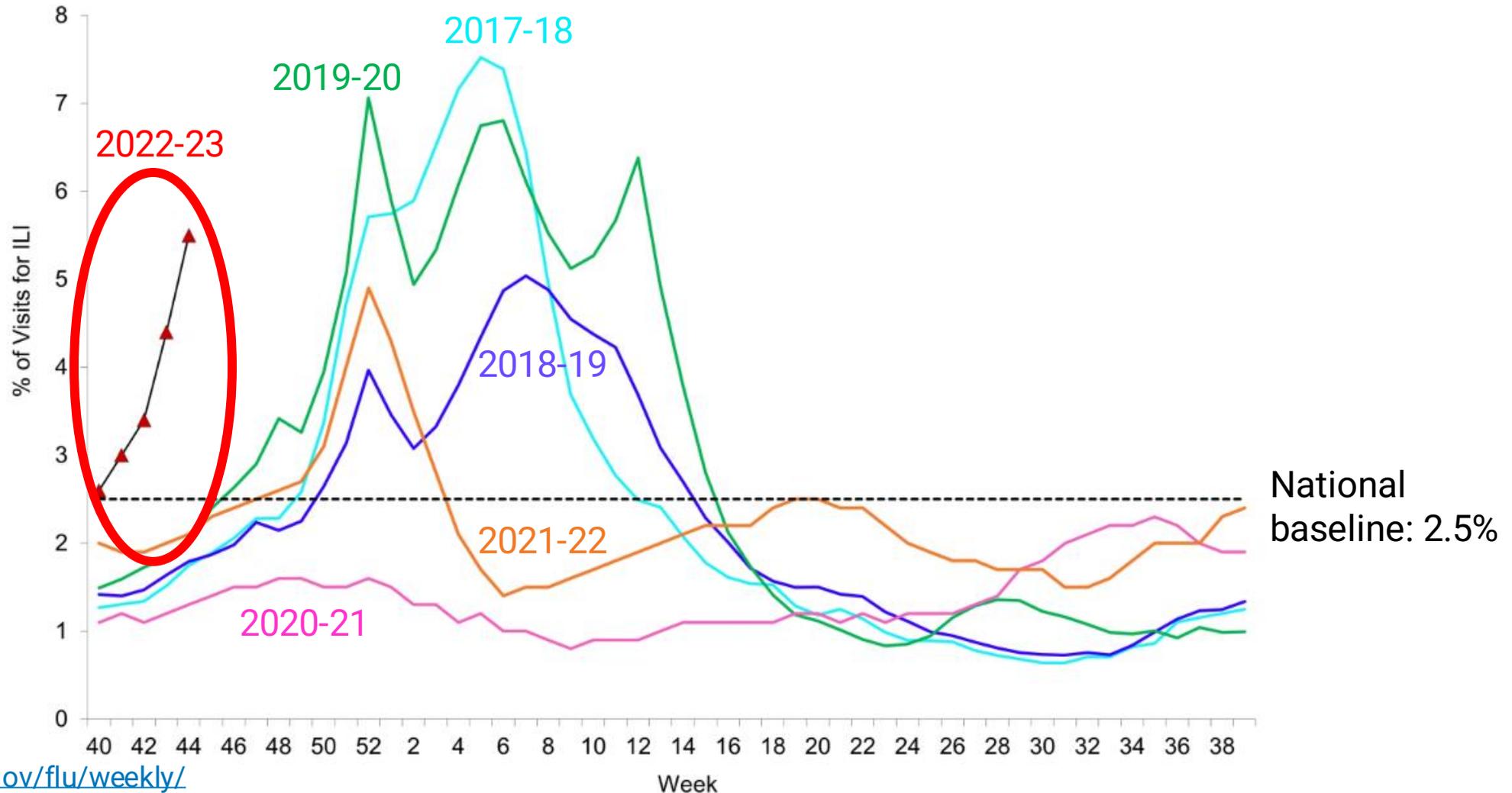
- U.S. Antibiotic Awareness Week is an annual one-week observance to raise awareness of the importance of appropriate antibiotic use to combat the threat of antimicrobial resistance.
- *Be Antibiotics Aware*, a CDC educational effort, complements U.S. Antibiotic Awareness Week by providing partners with up-to-date information to help improve human antibiotic prescribing and use in the United States.

# THIS WEEK

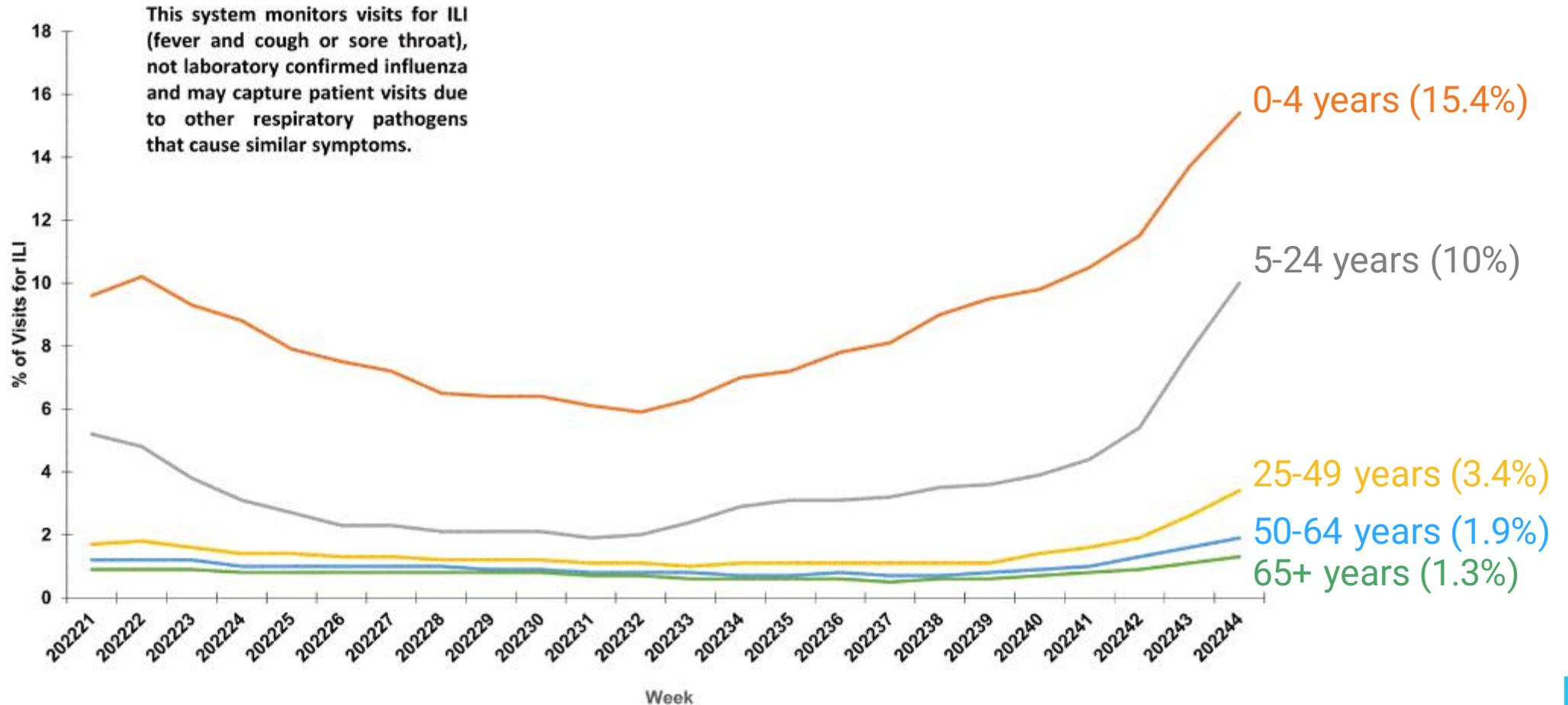
2022-23 Influenza Season Week 45 ending Nov 12, 2022



# U.S. percentage of outpatient visits for respiratory illness: **Seeing a sharp and early incline in % for 2022-23 season** compared to previous years

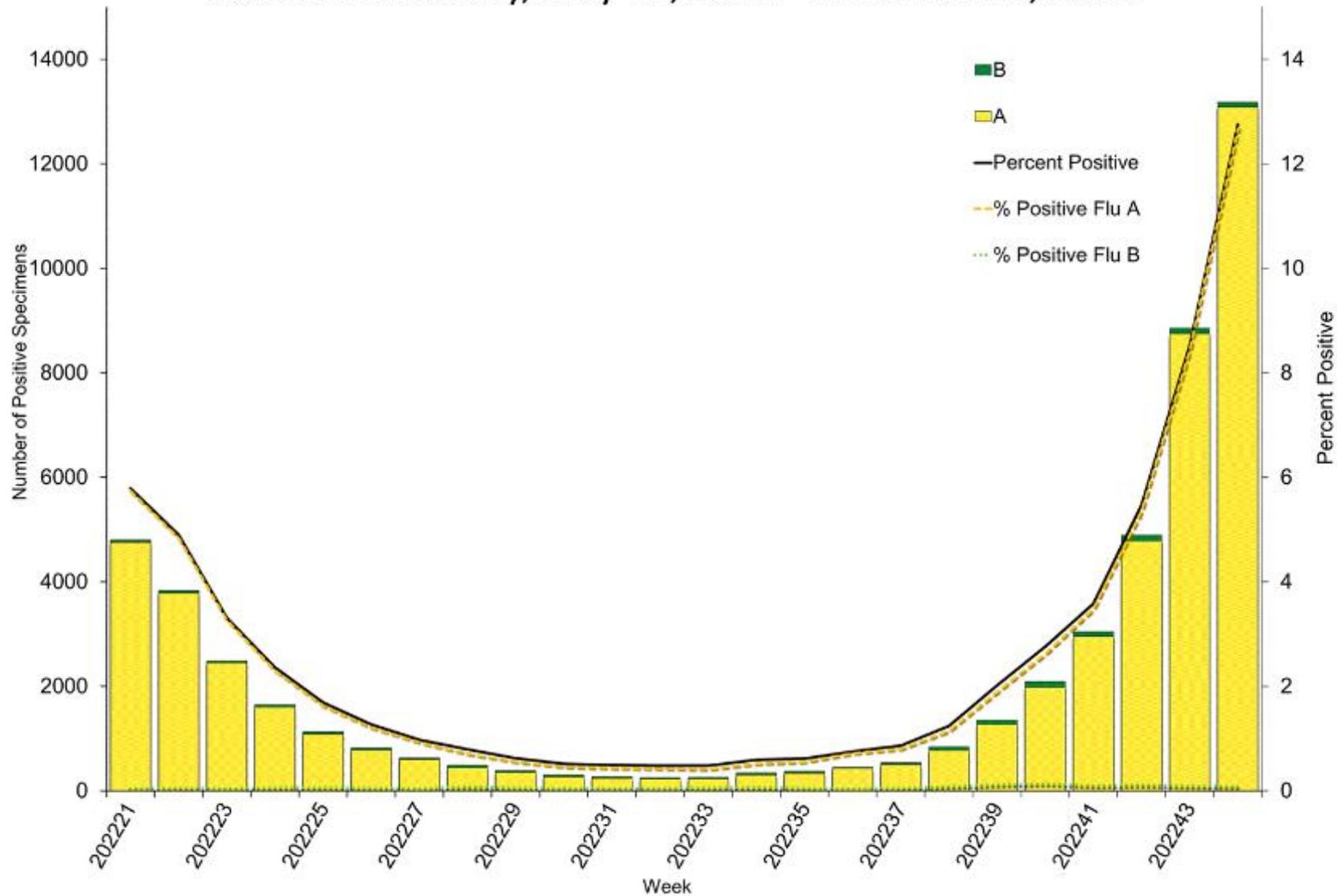


# U.S. Percentage of Outpatient Visits for Respiratory Illness highest among **youngest populations** (May 22, 2022-November 5, 2022)

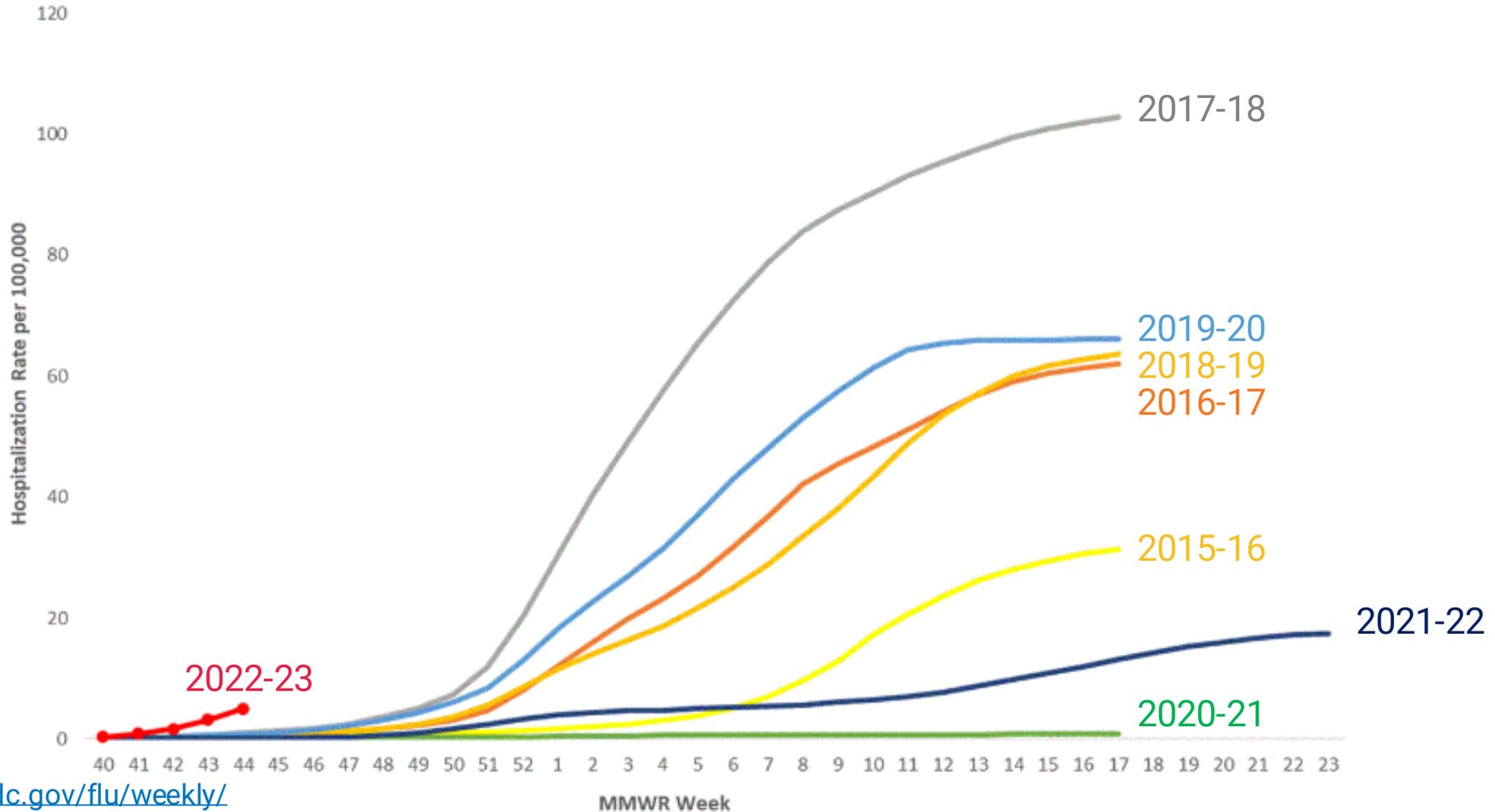




## Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, May 22, 2022 – November 5, 2022



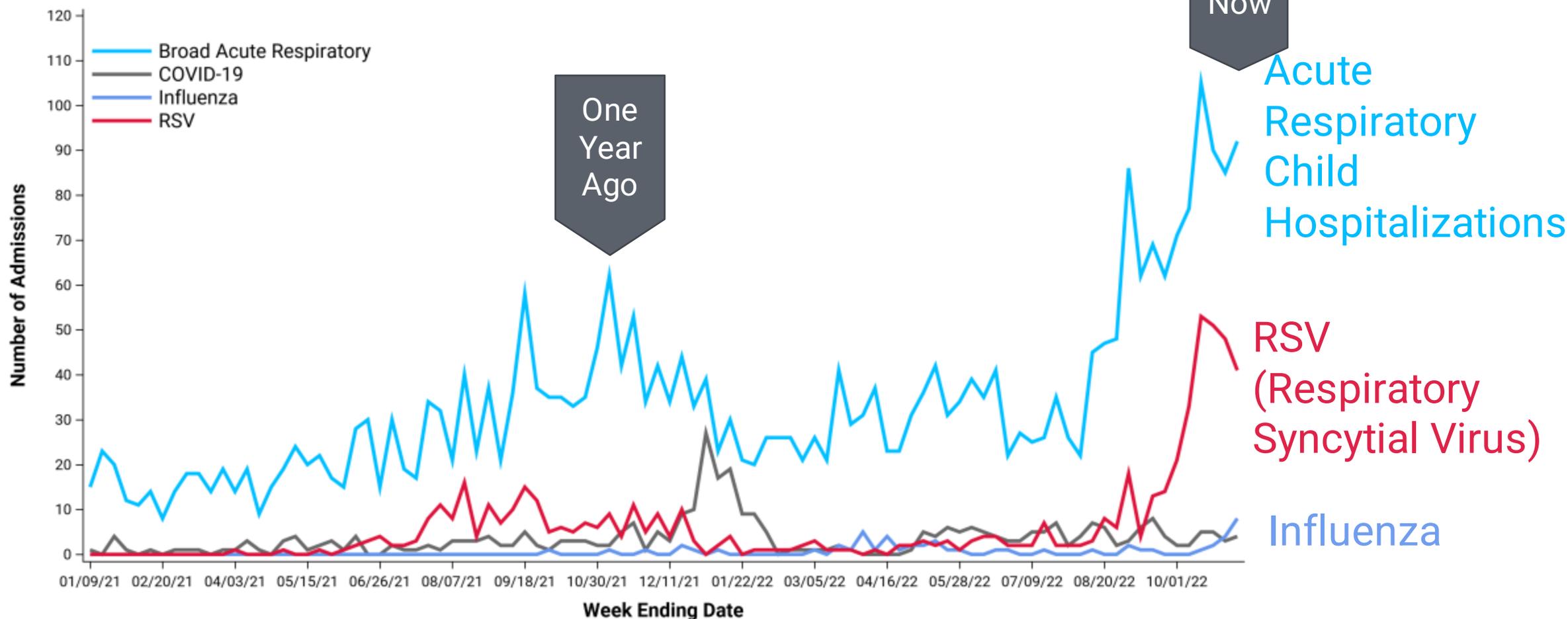
# Chicago: Cumulative Rate of Lab-Confirmed Influenza Hospitalizations among all cases of all ages



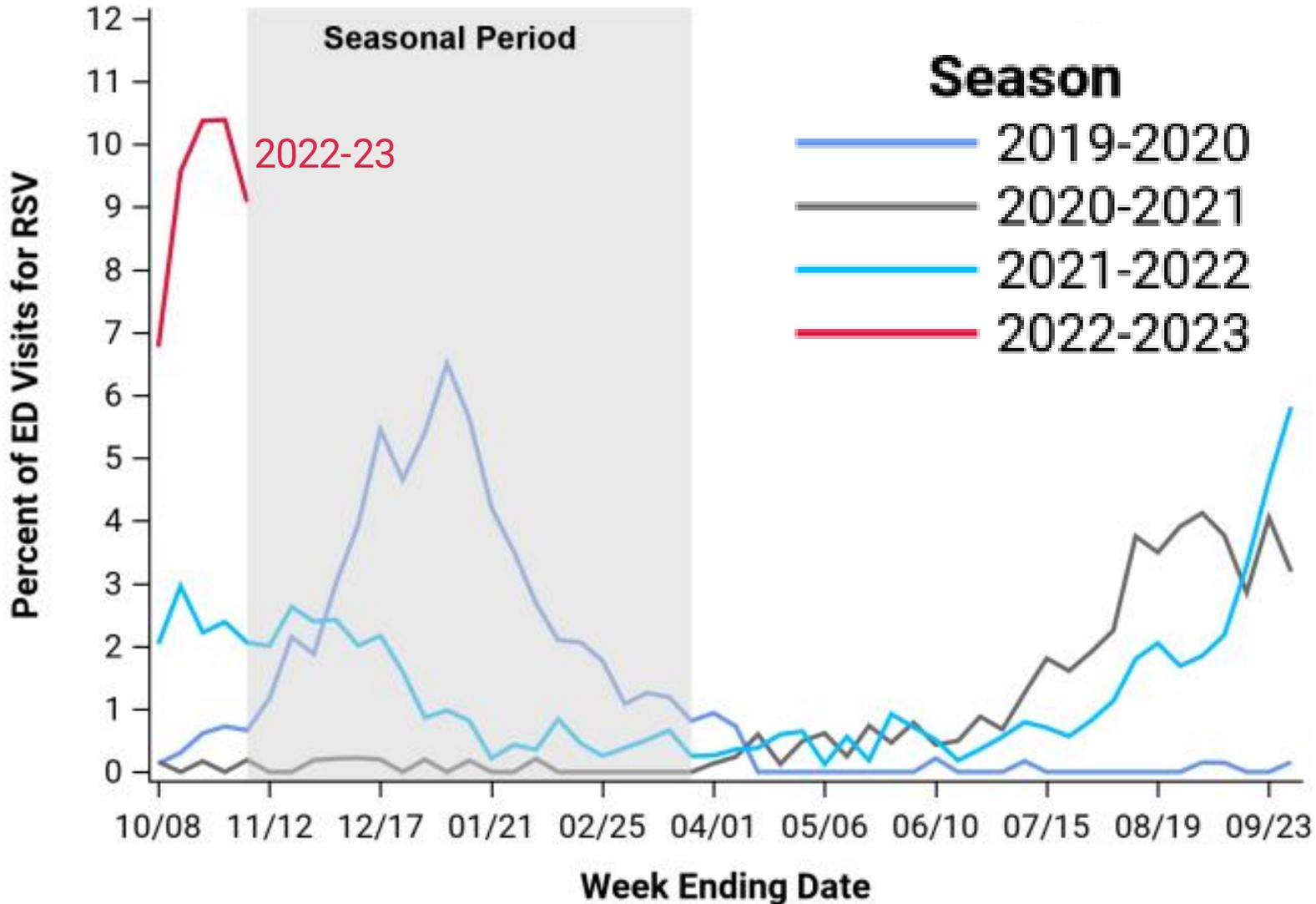
# Chicago: Surge in **Child** Respiratory Illnesses and Hospitalizations



Pediatric Admissions at **Chicago Hospitals** due to Acute Respiratory Illnesses: January 2021-present



# Percent of ED Visits in Children (<5 years) for RSV this season is **4.5x higher** than the same time last year





## Our local risk based on CDC COVID-19 Community Levels is:

Low

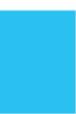
	New cases per 100,000 population (last 7 days) <i>[Goal is &lt;200]</i>	New admissions per 100,000 population (last 7 days) <i>[Goal is &lt;10]</i>	Percent of staffed inpatient beds occupied by COVID-19 patients (last 7 days) <i>[Goal is &lt;10%]</i>
City of Chicago	104	8.1	3.6%
Cook County (including City of Chicago)	104	9.1	3.7%

*Chicago metrics are calculated based on Chicago-level data.*

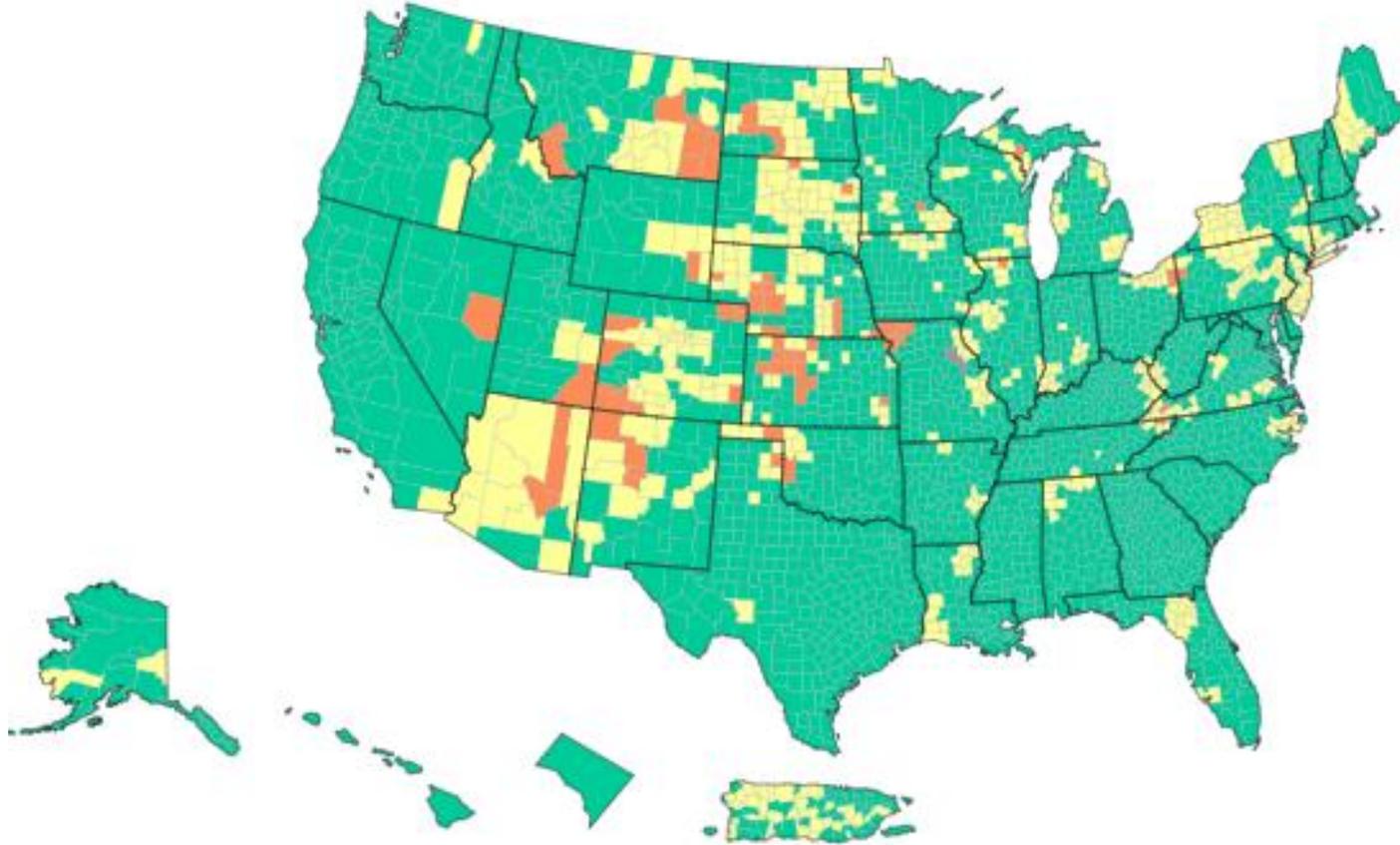
*Cook County metrics are calculated by the CDC and posted on the [CDC Community Levels website](https://www.cdc.gov/communitylevels/).*

*Data current as of 11/17/2022.*

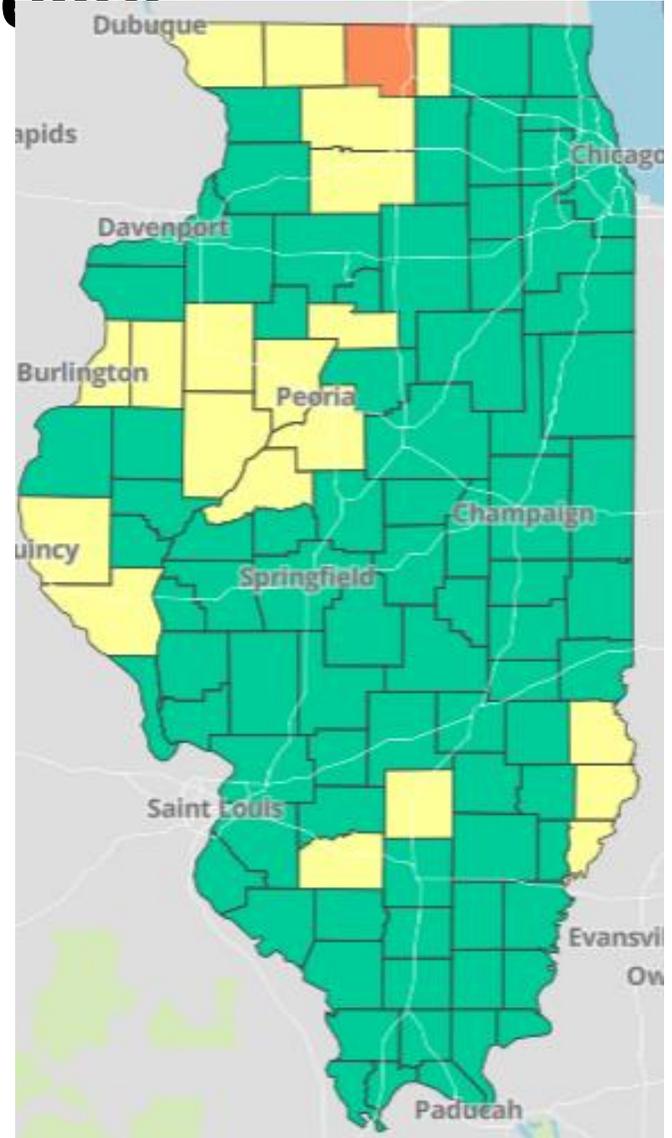
# 2.8% of U.S. Counties reported High COVID Community Level and 17% reported Medium Level



Low Medium High

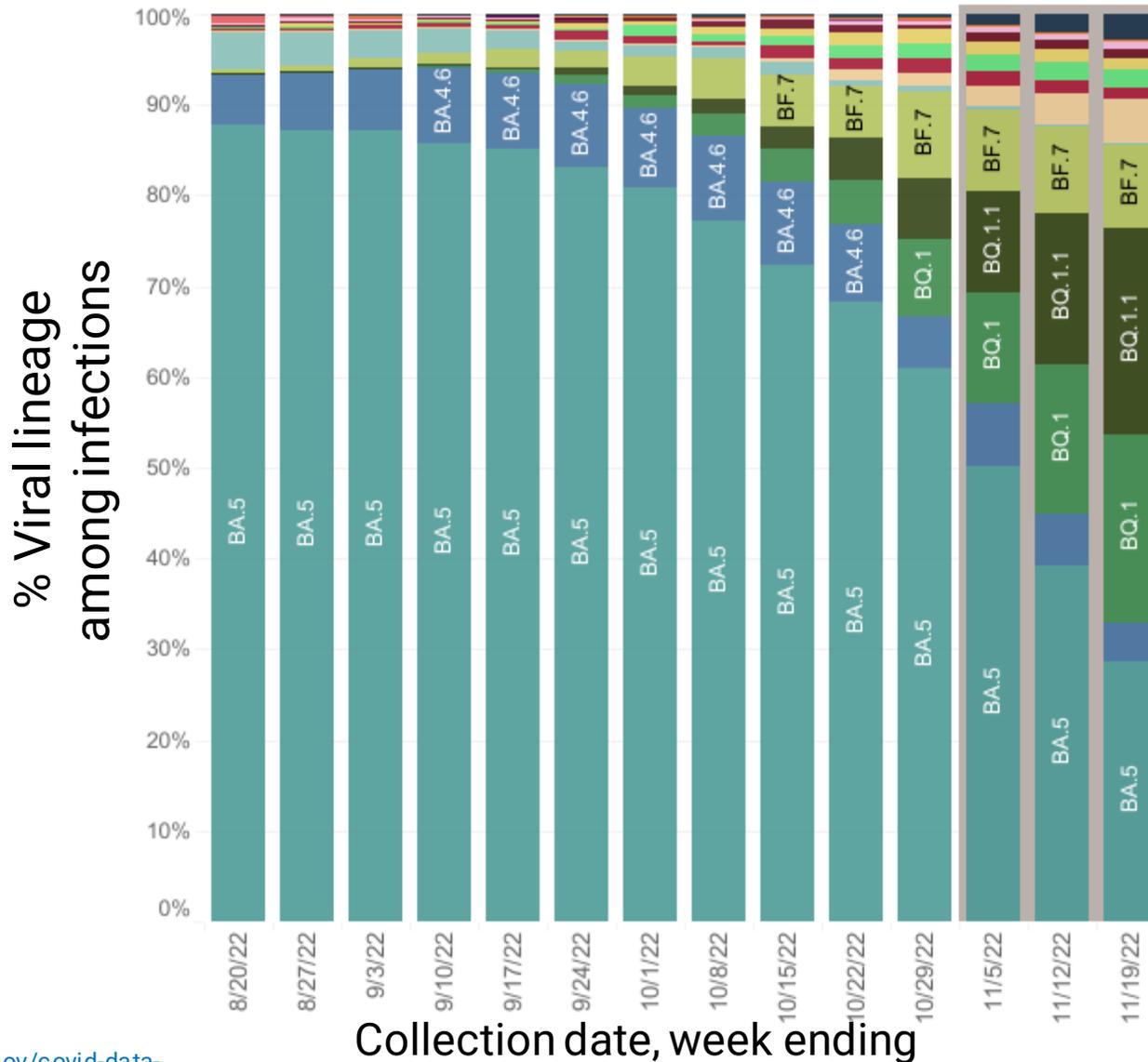


GU AS MP VI



# Variant Surveillance, Midwest Region

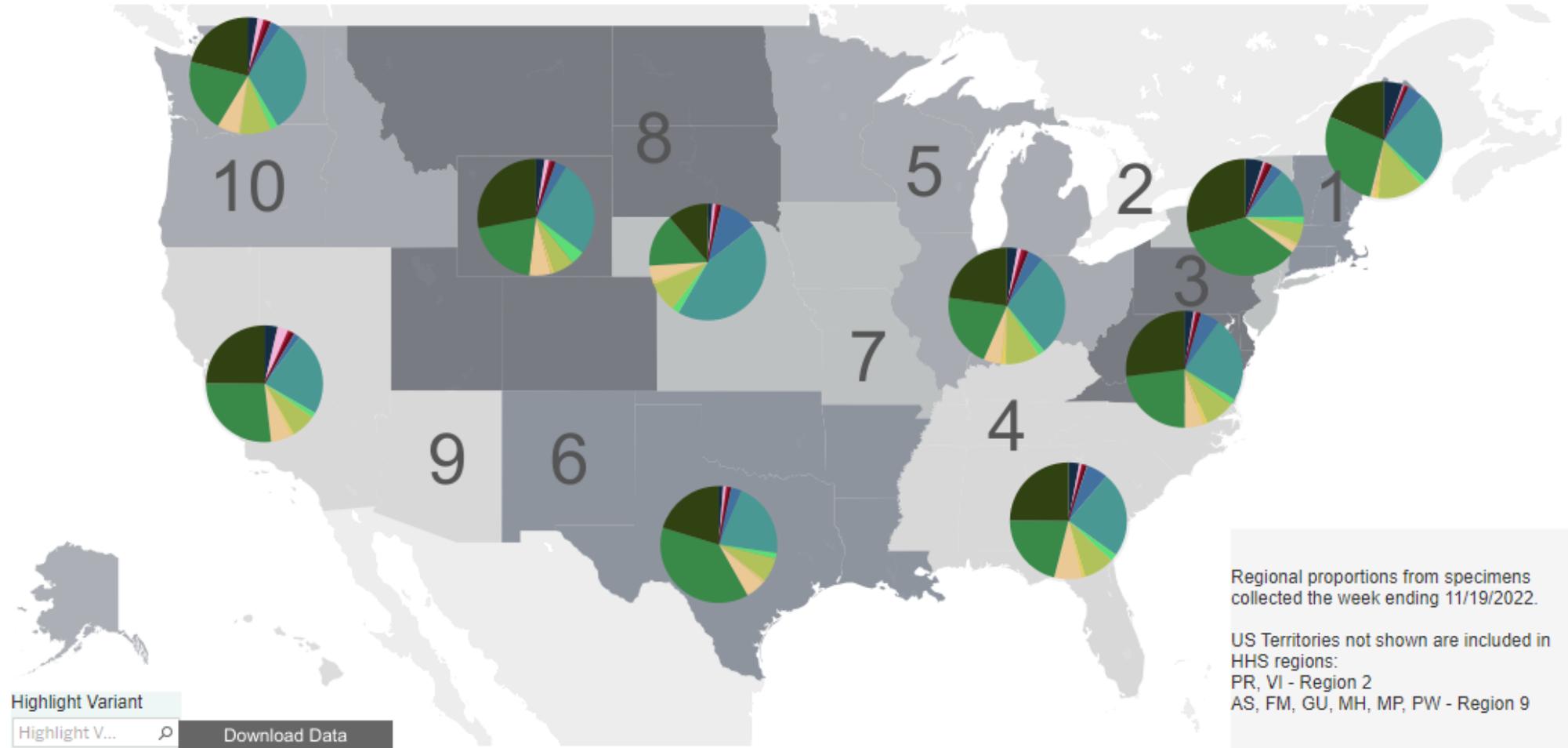
## Continued evolution of more infectious Omicron subvariants



BA.5	28.7%	
BQ.1.1	22.8%	
BQ.1	20.7%	
BF.7	9.4%	
BN.1	4.9%	
BA.4.6	4.2%	
BA.5.2.6	1.8%	
BF.11	1.4%	
BA.2.75	1.3%	
BA.2	1.1%	
BA.2.75.2	0.9%	
BA.4	0.1%	
BA.1.1	0.0%	
B.1.1.529	0.0%	
BA.2.12.1	0.0%	
B.1.617.2	0.0%	
Other*	2.9%	

# Variant proportions in the U.S.

United States: 11/13/2022 – 11/19/2022 NOWCAST

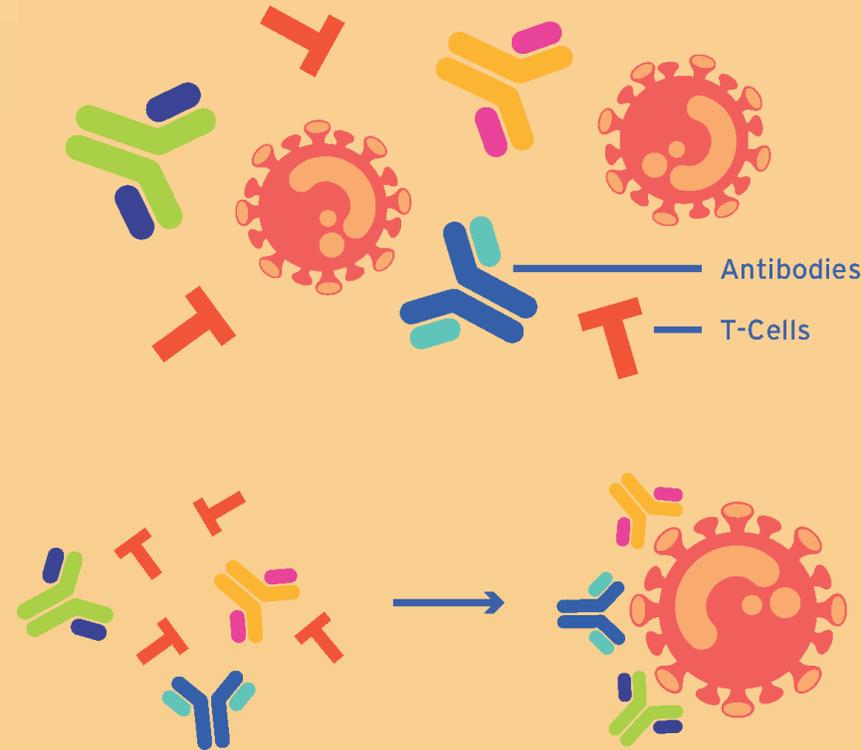
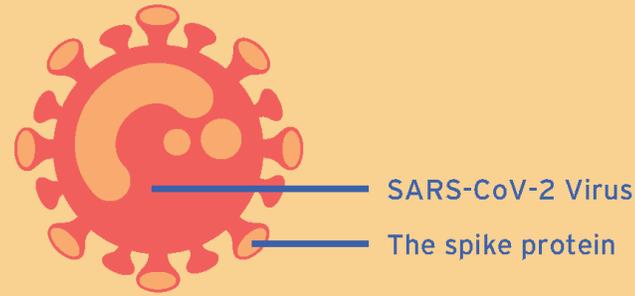
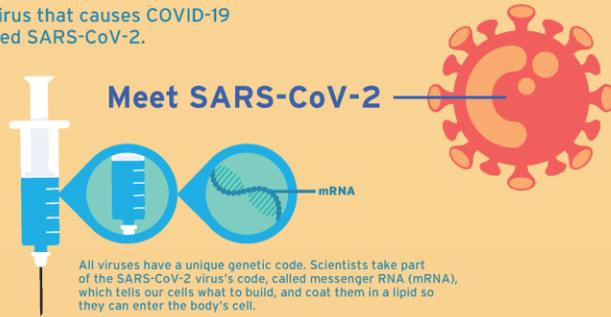


Lineages called using pangolin v4.1.3, pangolin-data v1.16 and usher v.0.5.4.

Updated November 18, 2022

# How mRNA vaccines work

Every virus is different.  
The virus that causes COVID-19  
is called SARS-CoV-2.



## CREATE

The mRNA tells the cells to make a specific part of the SARS-CoV-2 virus: the spike protein.

## LEARN

The immune system then produces antibodies and activates T-cells to destroy the spike proteins.

## PROTECT

If you are exposed to the virus in the future, your immune system will quickly recognize the spike protein and has the antibodies and T-cells ready to begin destroying the virus.

Source: [COVID-19 Center \(mmdhd.org\)](https://www.cdc.gov/covid19/)



# COVID-19 Bivalent Booster Update

**All data are preliminary and subject to change.**

**11/17/2022**

# ★ Low Everywhere, but Higher Updated Booster Coverage among Chicagoans than Nationwide Estimates

People with an Updated (Bivalent) Booster Dose#	Percent of US Population
Population ≥ 5 Years of Age	11.3%
Population ≥ 12 Years of Age	12.3%
Population ≥ 18 Years of Age	13.1%
Population ≥ 65 Years of Age	29.6%

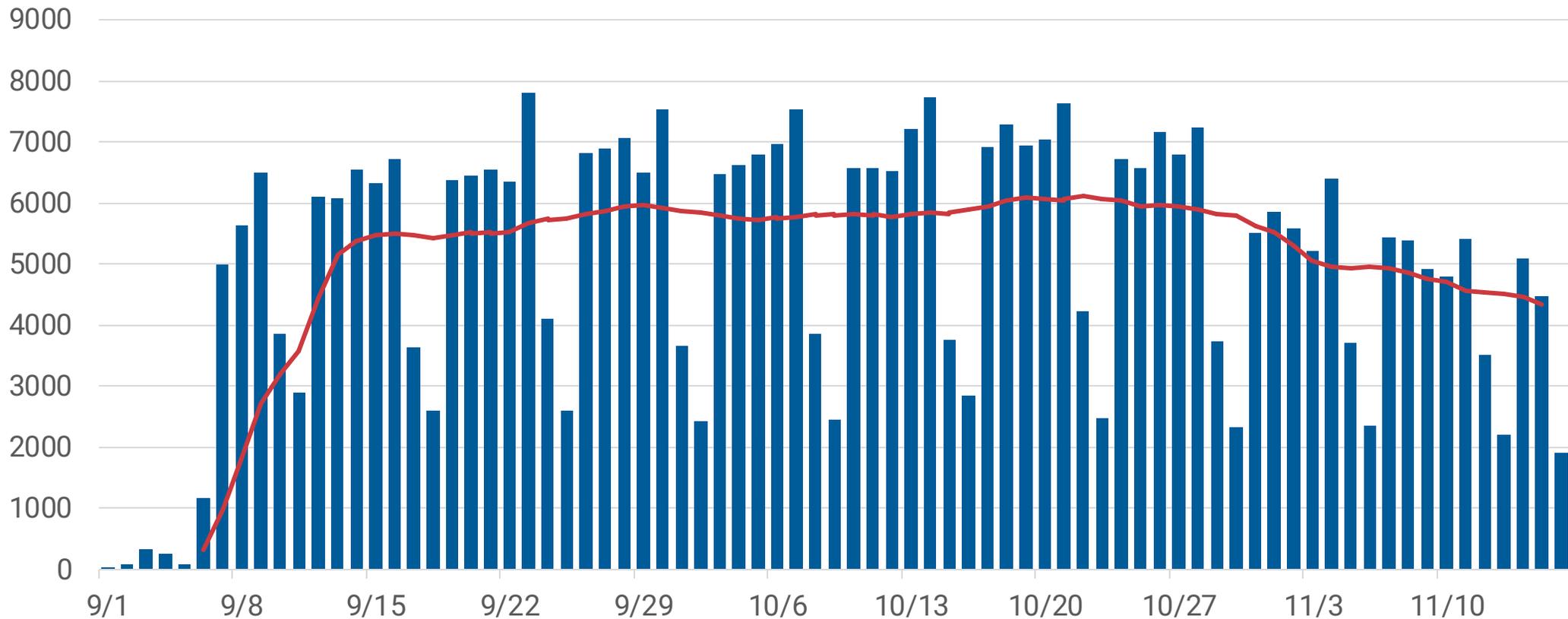
Percent of Chicago Population
14.4%
15.0%
15.8%
30.0%

CDC / National Data as of 11/17/22

Chicago data reported to I-CARE as of 11/16/2022.

# Over **387,000** doses of the updated boosters have been administered to Chicagoans since authorization (up from 350,000 last week)

*The 7-day rolling average of daily doses administered decreased from ~4,800 last week to ~4,500 this week*



# Overall, **21%** (+2%) of Eligible Chicagoans have received an updated, Fall 2022 COVID booster

**No. of Chicagoans eligible for updated vaccine (est.)\***

**No. of eligible who received updated vaccine**

**Percent eligible who have received updated vaccine**

## Race/Ethnicity

Latinx	519,256	60,519	11.7%
Black, non-Latinx	434,137	71,062	16.4%
White, non-Latinx	645,745	206,778	32.0%
Asian, non-Latinx	143,593	32,575	22.7%

## Age Group

05-11 yrs	97,303	7,971	8.2%
12-17 yrs	127,390	12,704	10.0%
18-29 yrs	355,458	43,247	12.2%
30-39 yrs	354,147	71,896	20.3%
40-49 yrs	276,676	54,589	19.7%
50-59 yrs	255,006	55,254	21.7%
60-69 yrs	215,962	66,628	30.9%
70-79 yrs	127,030	50,752	40.0%
80+ yrs	66,373	24,312	36.6%



# Bivalent vs Primary Facility Type:

Updated, fall 2022 boosters more likely to have been given in a **pharmacy setting** than primary series

Facility Type	Bivalent Count	Bivalent %	Primary Count	Primary %
Pharmacy	263,126	69.1%	826,281	26.4%
Outpatient	49,815	13.1%	617,632	19.8%
Hospital	35,156	9.2%	496,982	15.9%
FQHC	22,079	5.8%	304,718	9.8%
Other	5,106	1.3%	106,885	3.4%
Urgent Care	3,411	0.9%	52,636	1.7%
Public Health	2,032	0.5%	240,104	7.7%

Data reported to I-CARE as of 11/15/2022.

Data on where individuals received their bivalent booster is partially incomplete and percentages may not add to 100% due to rounding

# ★ Where Chicagoans Receive Their Bivalent Boosters

	White, Non-Latinx (col %)	Latinx (col %)	Black, Non-Latinx (col %)	Asian, Non-Latinx (col %)	AIAN, Non-Latinx (col %)	NHOPI, Non-Latinx (col %)	Other, Non-Latinx (col %)	Unknown (col %)
Pharmacy	81.9%	47.3%	46.4%	73.7%	79.6%	78.6%	62.5%	61.5%
Outpatient	8.1%	17.1%	26.9%	9.5%	9.8%	9.7%	16.9%	17.6%
Hospital	6.5%	8.4%	16.0%	12.3%	6.0%	7.3%	13.5%	16.9%
FQHC	1.4%	22.8%	7.1%	1.9%	3.4%	2.3%	4.7%	1.9%
Other	0.9%	2.7%	1.8%	1.0%	0.5%	0.4%	1.2%	0.7%
Urgent Care	1.0%	0.5%	0.9%	1.0%	0.5%	1.3%	1.0%	1.4%
Public Health	0.2%	1.2%	1.0%	0.6%	0.2%	0.4%	0.2%	< 0.01%

Data reported to I-CARE as of 11/15/2022.  
 Percentages calculated based on column values and may not equal 100% due to rounding

**REGISTRATION ENCOURAGED ★ WALK-INS WELCOME**  
All clinics are Saturdays from 9am-2pm



No Family Vax  
Clinic this  
weekend for  
Thanksgiving

**NEXT SATURDAY**

<b>LOCATION:</b>	<b>DATE:</b>	<b>REGISTER AT:</b>
Malcolm X	November 5	<a href="https://rebrand.ly/MalcolmXCollege">rebrand.ly/MalcolmXCollege</a>
Truman	November 12	<a href="https://rebrand.ly/TrumanCollege">rebrand.ly/TrumanCollege</a>
Kennedy-King	November 19	<a href="https://rebrand.ly/KennedyKing">rebrand.ly/KennedyKing</a>
Wright	December 3	<a href="https://rebrand.ly/WrightCollege">rebrand.ly/WrightCollege</a>
Olive-Harvey	December 10	<a href="https://rebrand.ly/Olive-Harvey">rebrand.ly/Olive-Harvey</a>
Daley	December 17	<a href="https://rebrand.ly/DaleyCollege">rebrand.ly/DaleyCollege</a>

**The new COVID-19 bivalent booster is available!**

**Types of vaccines:** Flu, COVID-19 primary series from Pfizer and Moderna starting 6 months+, and Pfizer bivalent boosters from 5 years+

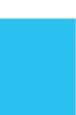




# GET YOUR UPDATED COVID BOOSTER & FLU SHOT AT HOME



In-home vaccination is available to all Chicago households at no cost. Up to 10 people can be vaccinated, so invite your family, friends, or neighbors to get vaccinated together.



# EVERYONE 6 MONTHS AND UP IS ELIGIBLE FOR THE AT-HOME PROGRAM

In-home appointments are available four days a week, Saturday through Tuesday, 8:00 am – 6:30 pm.

## VACCINES AVAILABLE

- Primary series Moderna (age 6 months through 5 years) and Pfizer (age 6 months and older).
- New Pfizer bivalent boosters (age 5 years and older).
- Flu shots are available as long as one person receives the COVID-19 vaccine.



# New 'Travel Healthy' campaign launched this week

[Chicago.gov/travelhealthy](https://chicago.gov/travelhealthy)

**TRAVEL**  
**HEALTHY**  
PREPARE | PREVENT | PROTECT



## Guidance For COVID-19 And Emerging Risks



# THINK YOU'RE UP TO DATE WITH YOUR COVID VACCINES?

IF YOU HAVEN'T  
BEEN VACCINATED  
SINCE LABOR DAY...



Previously vaccinated Chicagoans age 5+ are eligible for the new bivalent booster and the best protection against Omicron.



Need a vaccine or a booster?  
Have questions?

visit

**CHI.GOV/COVIDVAX**

or call

**312-746-4835**



STILL FREE FOR ALL!

- Pharmacy
- Doctor's Office
- Pop-Up Clinic
- Standing Clinic
- AT HOME!!!