



Ask Dr. Arwady

2/22/2022

Guest: Dr. Erica Taylor, Medical Director, Chicago Department of Public Health

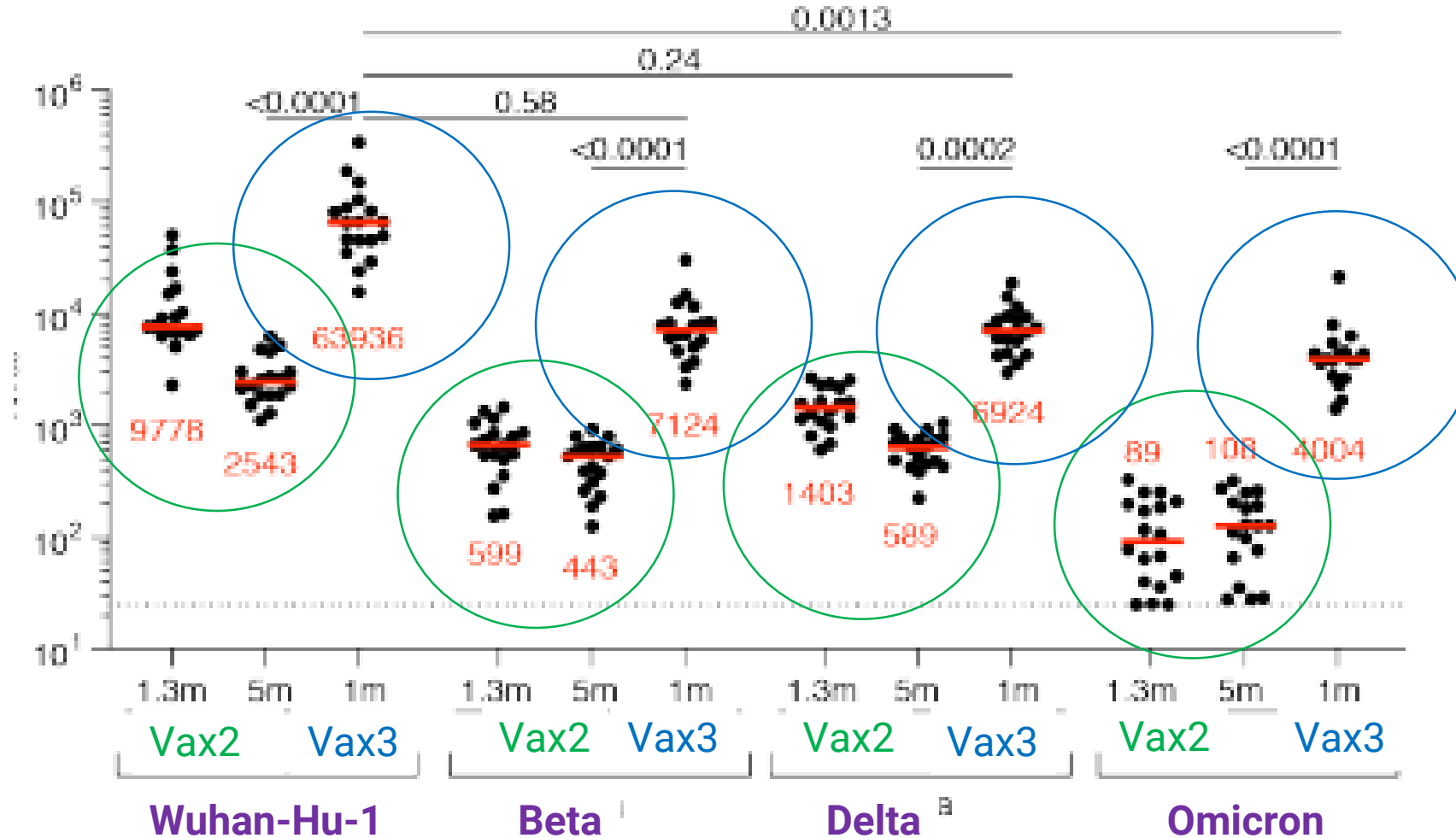
Chicago COVID-19 Community Transmission and Risk Matrix



	VERY HIGH TRANSMISSION	HIGH TRANSMISSION	SUBSTANTIAL TRANSMISSION	LOWER TRANSMISSION	LOW TRANSMISSION
COVID-19 CASES DIAGNOSED PER DAY Chicago residents - 7-day rolling daily average	800+	400 – 799	200 – 399 Current: 283 Decreasing	20 – 199	≤20
COVID-19 TEST POSITIVITY Chicago residents - 7-day rolling daily average	10%+	6.6 – 9.9%	5.0 – 6.5%	2 – 4.9%	≤2% Current: 1.5% Decreasing
HOSPITAL BEDS (NON-ICU) OCCUPIED BY COVID PATIENTS Chicago hospitals - 7-day rolling daily average	1250+	750 – 1249	250 – 749	100 – 249 Current: 239 Decreasing	≤100
ICU BEDS OCCUPIED BY COVID PATIENTS Chicago hospitals - 7-day rolling daily average	400+	300 – 399	100 – 299	20 – 99 Current: 80 Decreasing	≤20

Increased Potency and Breadth of SARS-CoV-2 Neutralizing Antibodies After a Third mRNA Vaccine Dose

Neutralizing Activity (higher is better)



Plasma ELISAs and neutralizing antibody. Plasma neutralizing activity against indicated SARS-CoV-2 variants of interest/concern

T cell responses to SARS-CoV-2 spike cross-recognize Omicron

- Omicron variant has multiple Spike (S) protein mutations that contribute to escape from **antibody** neutralization and reduce vaccine protection from infection.
- Good news. Study compared the ability of **T cells** to react with omicron Spike in people after vaccination and after recovery from COVID (no vaccination): 70-80% T-cell activity maintained, even though Omicron has many more mutations.

<https://doi.org/10.1038/s41586-022-04460-3>

Keeton R et al. *Nature* 2022.

Ancestral SARS-CoV-2-specific T cells cross-recognize the Omicron variant

- Severe disease relatively uncommon in Omicron for people with naturally acquired or vaccine-induced immunity—highlights potential role for other components of the adaptive immune system (e.g. T cells, not just neutralizing antibodies)
- SARS-CoV-2 spike specific CD4+ and CD8+ T cells induced by prior infection or vaccination provided extensive immune coverage against Omicron.

Median **CD4+ T cell** cross-recognition (Higher is better)

- Previously infected: 84%
- Vaccinated: 91%

Median **CD8+ T cell** cross-recognition (Higher is better)

Previously infected: 70%
Vaccinated 92%

Gao et al. *Nature* 2022.

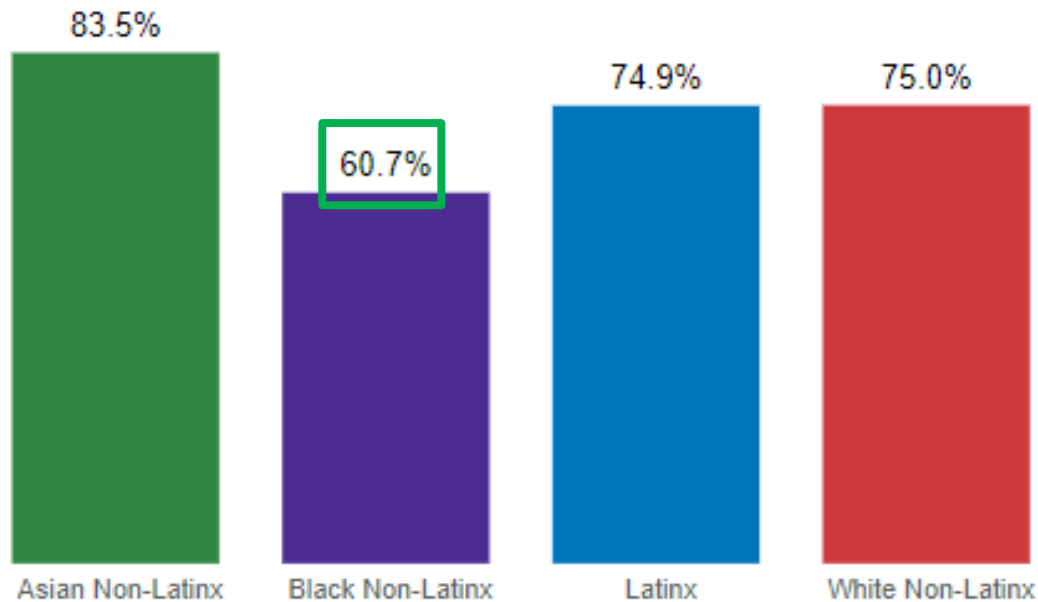
Citywide Vaccination Rate by Race/Ethnicity



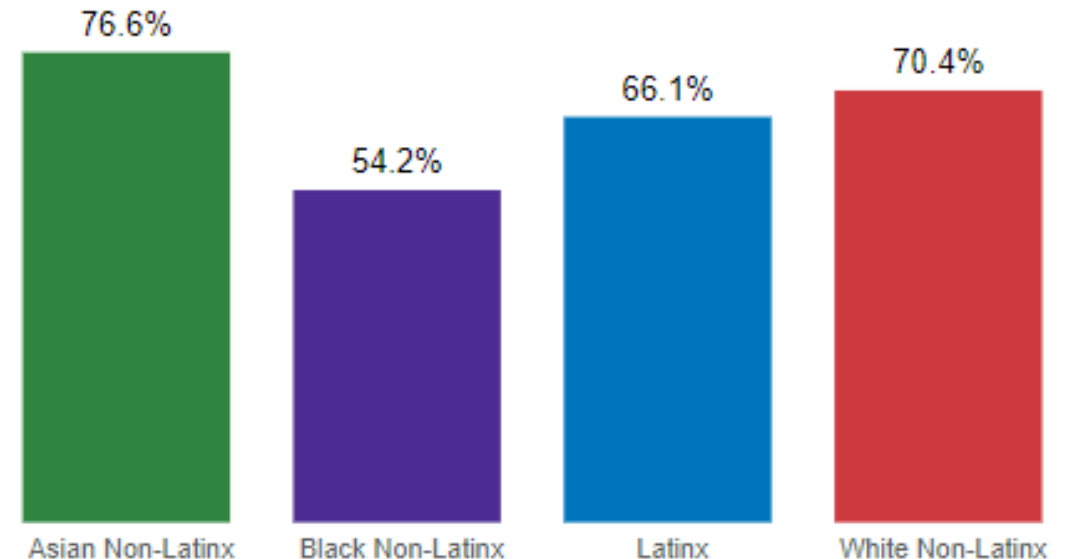
61% of Black non-Latinx Chicagoans have now had a first dose of COVID vaccine (54% fully vaxxed)

A Latinx Chicagoan is just as likely to have received at least one dose of COVID vaccine as a **White Non-Latinx Chicagoan**

At least one dose (% vaccinated as of 2/20/2022)

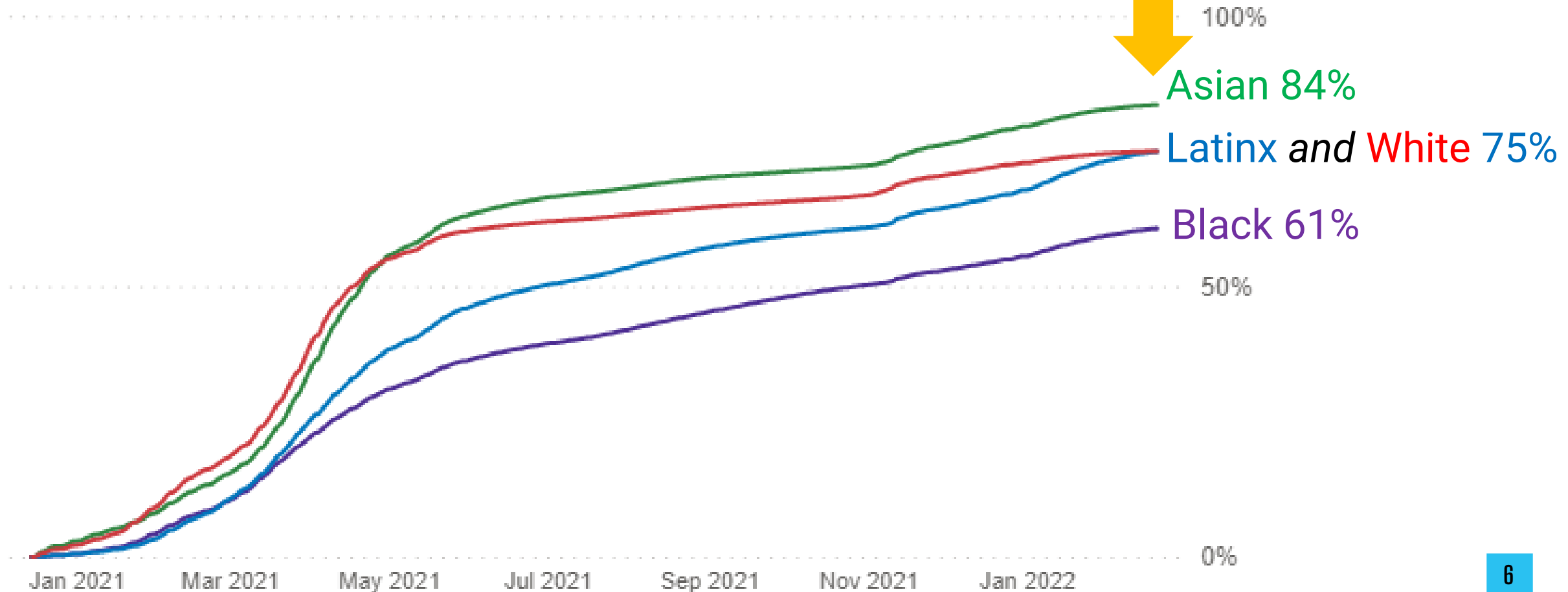


Completed vaccine series (% vaccinated as of 2/20/2022)



Three of four (75%) Latinx Chicagoans (all ages) have now had a first dose of COVID-19 vaccine. This is the *same* first dose vaccine coverage seen in **White non-Latinx Chicagoans**.

● Asian Non-Latinx ● Black Non-Latinx ● Latinx ● White Non-Latinx





Plenty of appointments
available for Family Vaccine
Clinics this weekend

SATURDAY

SUNDAY

FAMILY COVID VACCINE CLINICS

ADULT AND PEDIATRIC VACCINE DOSES & BOOSTERS AVAILABLE

RICHARD J. DALEY COLLEGE

7500 S Pulaski Rd

Saturdays, 9am-2pm
Jan. 22 & Feb.12

WILBUR WRIGHT COLLEGE

4300 N Narragansett Ave

Sundays, 9am-2pm
Jan. 23 & Feb.13

KENNEDY-KING COLLEGE

6301 S Halsted St

Saturdays, 9am-2pm
Jan. 29 & Feb.19

OLIVE-HARVEY COLLEGE

10001 S Woodlawn Ave

Sundays, 9am-2pm
Jan. 30 & Feb.20

TRUMAN COLLEGE

1145 W. Wilson Ave

Saturdays, 9am-2pm
Feb. 5 & Feb.26

MALCOLM X COLLEGE

1900 W Jackson Blvd

Sundays, 9am-2pm
Feb. 6 & Feb.27

GET VAXXED AT HOME

GET \$50* PER DOSE



- Anyone age 5+ can get a vaccine at home
- Pfizer pediatric, adult and boosters doses available
- Up to 10 people can get vaccinated at the same time
- Appointments:
Monday-Sunday,
8:00 am to 6:30 pm

*One \$50 gift card for each primary Pfizer dose. Booster doses do not qualify.

To schedule your appointment:

CALL **312.746.4835**
OR VISIT **chicago.gov/athome**

WHAT YOU NEED TO KNOW ABOUT EARLY TREATMENTS FOR COVID-19



If you test positive for COVID-19, there are IV and oral medications that can help keep you out of the hospital, but they need to be taken in the first few days of infection.



If you test positive and have underlying conditions that put you at higher risk for hospitalization, ***talk with your healthcare provider immediately to see if they recommend newer treatments now available.***



Treatments used for COVID-19 can interact with other medications you take ***and must be prescribed*** by your healthcare provider.

- ***Please do not go to a pharmacy or infusion center without a prescription.***



Supply is growing but remains limited for these treatments and will be prioritized for those at highest risk of developing severe illness.

Looking for a vaccine?

visit **CHI.GOV/COVIDVAX**

or call **312-746-4835**



- ALL individuals 65+ are eligible for these treatments
- These treatments are provided by the federal government at no-cost
- These treatments are available regardless of an individual's vaccination status
- These treatments are available now in Chicago
- If you test positive for COVID-19, talk with your healthcare provider immediately

Need a vaccine or a booster? Have questions?

visit **CHI.GOV/COVIDVAX**

or call **312-746-4835**



PROTECT
CHICAGO ★