

# Chicago COVID-19 Community Risk Matrix - Phase IV

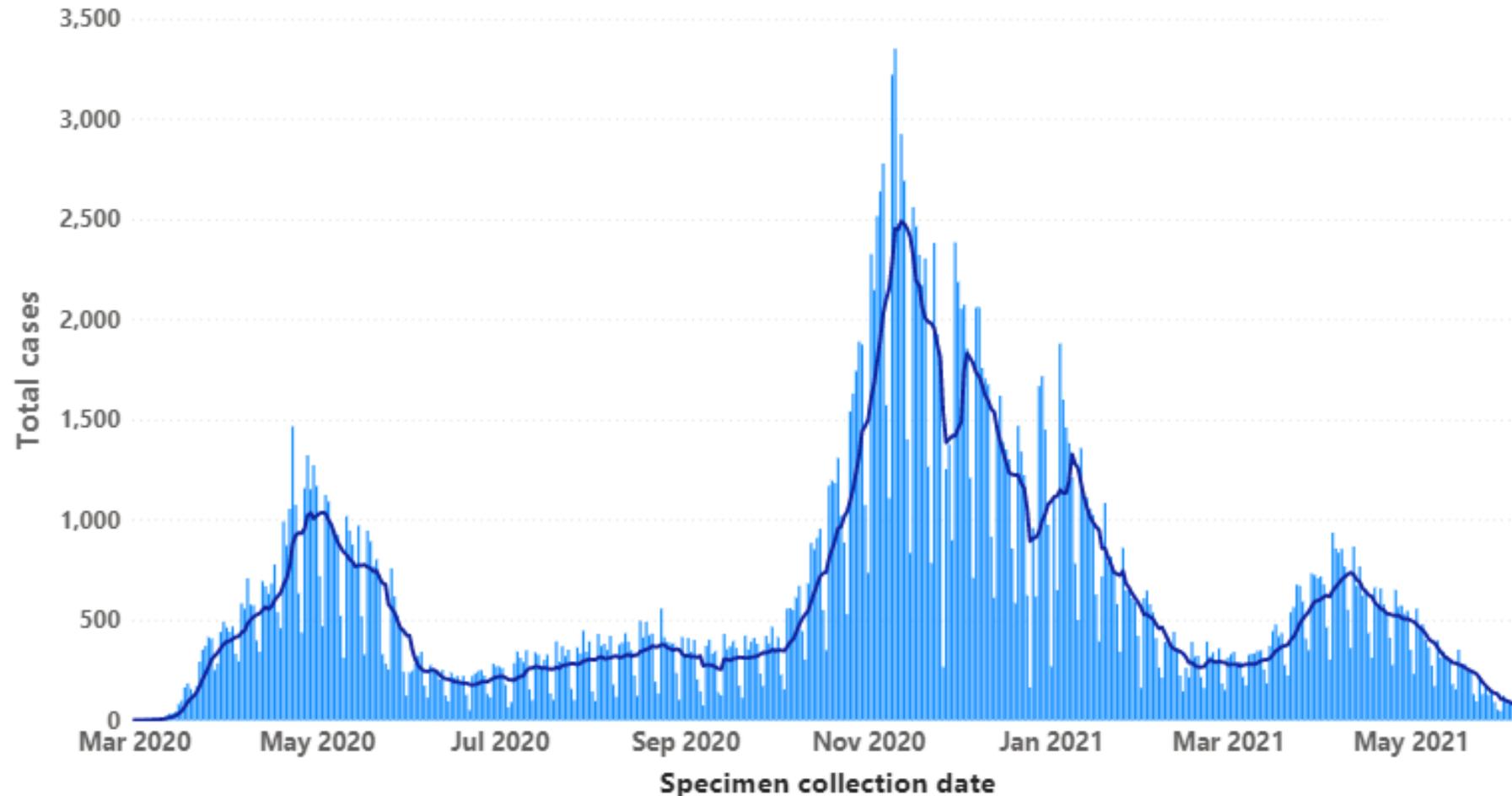
|   | Very high risk   | High risk   | Moderate risk  | Lower risk   | Low risk:<br>Controlled transmission   |
|---|--|---|--|--|--|
| COVID-19 cases diagnosed per day<br><small>Chicago residents<br/>7-day rolling daily average</small>                  | 800+   | 400 – 799   | 200 – 399  | 20 – 199<br><b>current: 91</b><br><i>declining</i>                                   | <20  |
| COVID-19 test positivity<br><small>Chicago residents<br/>7-day rolling daily average</small>                          | 10%+   | 6.6 - 9.9%  | 5.0 - 6.5%   | 2 - 4.9%   | <2%<br><b>current: 1.6%</b><br><i>declining</i>                                      |
| Hospital beds(non-ICU) occupied by COVID patients<br><small>Chicago hospitals<br/>7-day rolling daily average</small> | 1250+  | 750-1249  | 250 - 749  | 100 - 249<br><b>current: 201</b><br><i>declining</i>                                 | <100   |
| ICU beds occupied by COVID patients<br><small>Chicago hospitals<br/>7-day rolling daily average</small>               | 400+   | 300 - 399   | 100 – 299  | 20 - 99<br><b>current: 72</b><br><i>declining</i>                                    | <20  |
| <i>Additional considerations within each risk level</i>   | <i>*Metric will revert to <b>very high</b> risk if 7+ consecutive days <math>\geq</math>15% higher than the week prior</i> | <i>*Metric will revert to <b>high</b> risk if 5+ consecutive days <math>\geq</math>10% higher than the week prior</i> | <i>Metrics must continue to decrease or remain stable relative to the week prior</i> | <i>Metrics must continue to decrease or remain stable relative to the week prior</i> | <i>Metrics must continue to decrease or remain stable relative to the week prior</i> |

# New COVID-19 cases in Chicago continue to decline: now **fewer than 100 (91)** new cases per day--lowest since pandemic began



Confirmed daily COVID-19 Chicago resident cases and 7-day rolling average

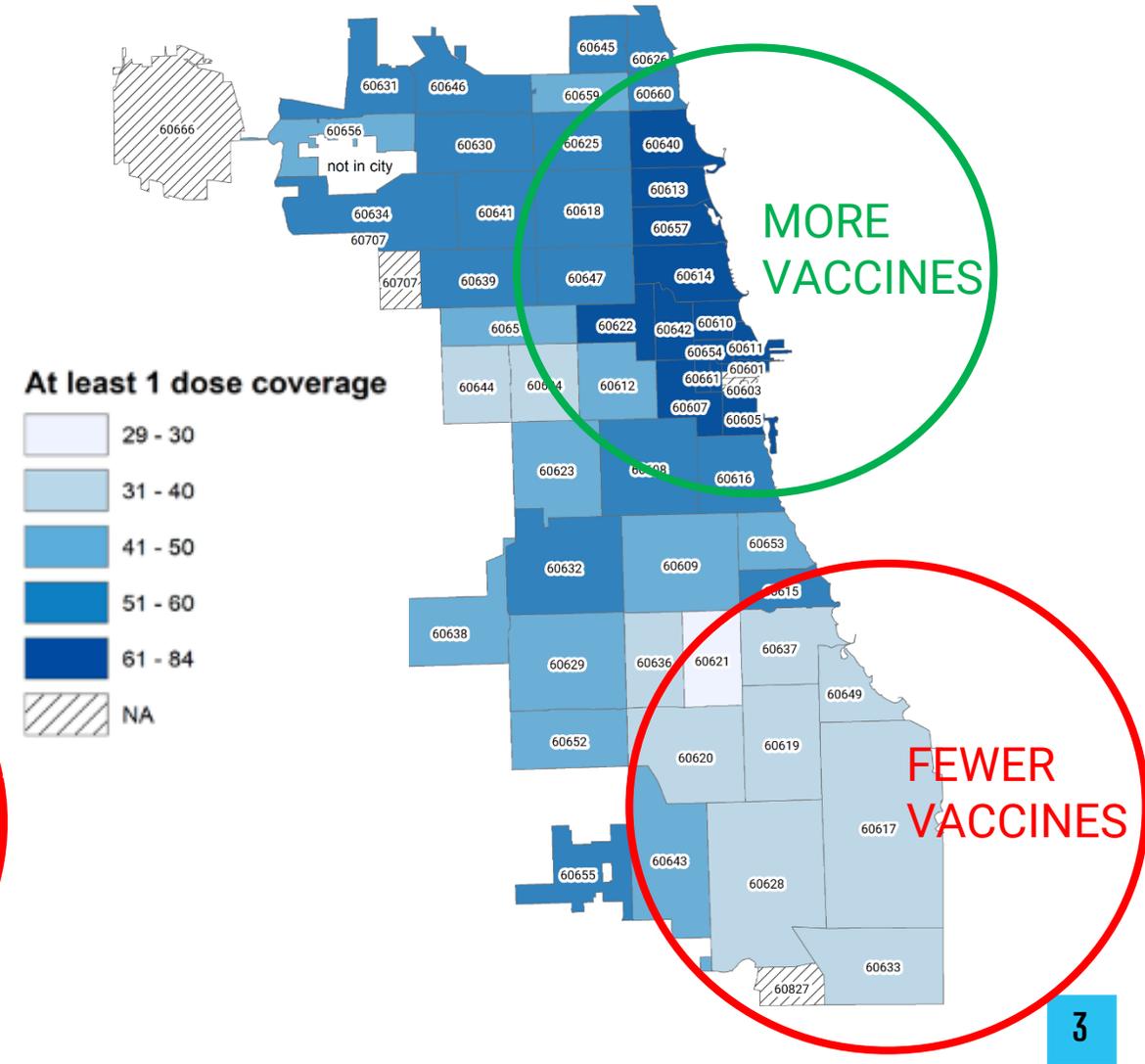
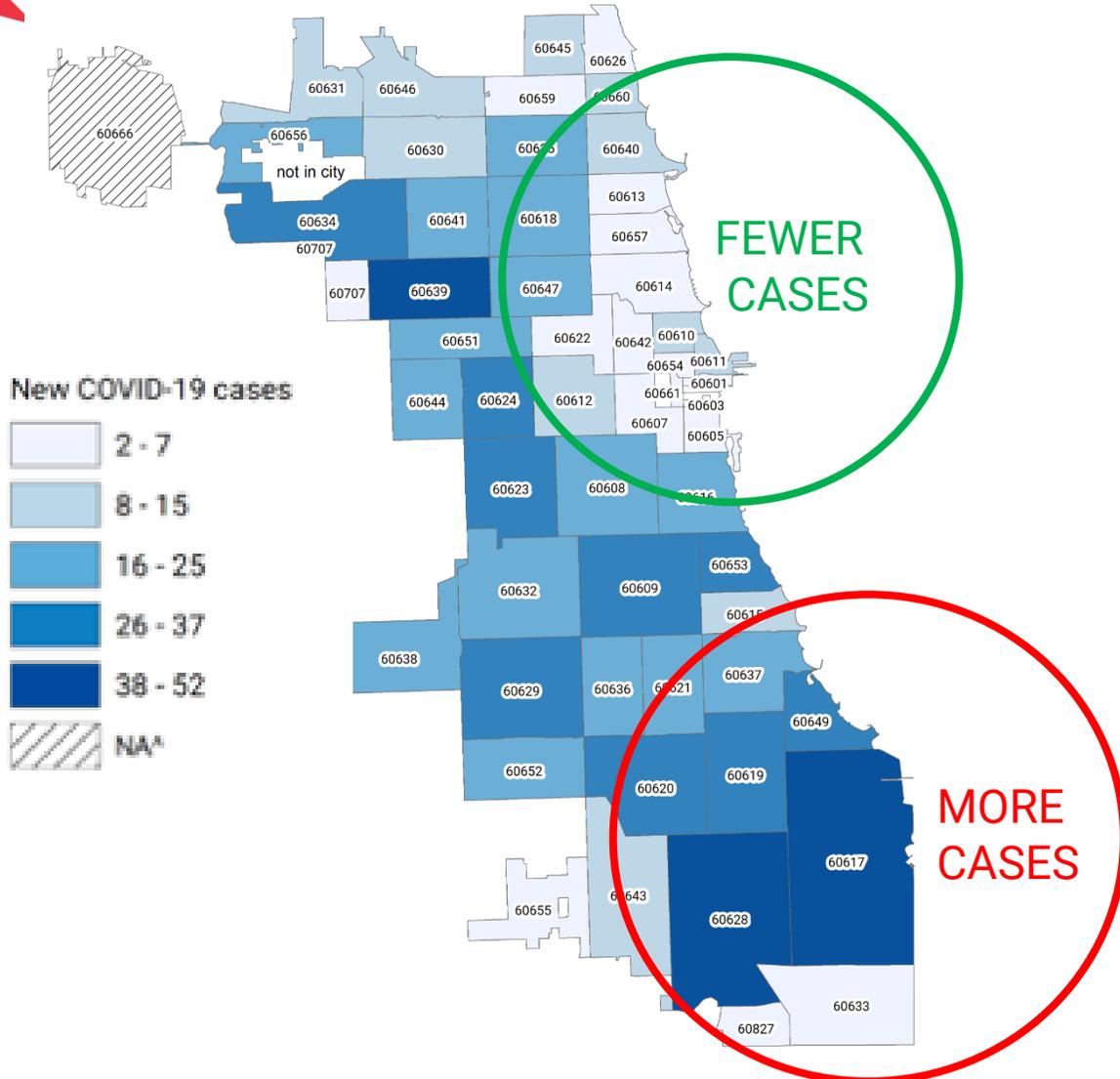
● Total cases ● 7-day rolling average



# Recent COVID-19 cases are concentrated in less vaccinated Chicago communities

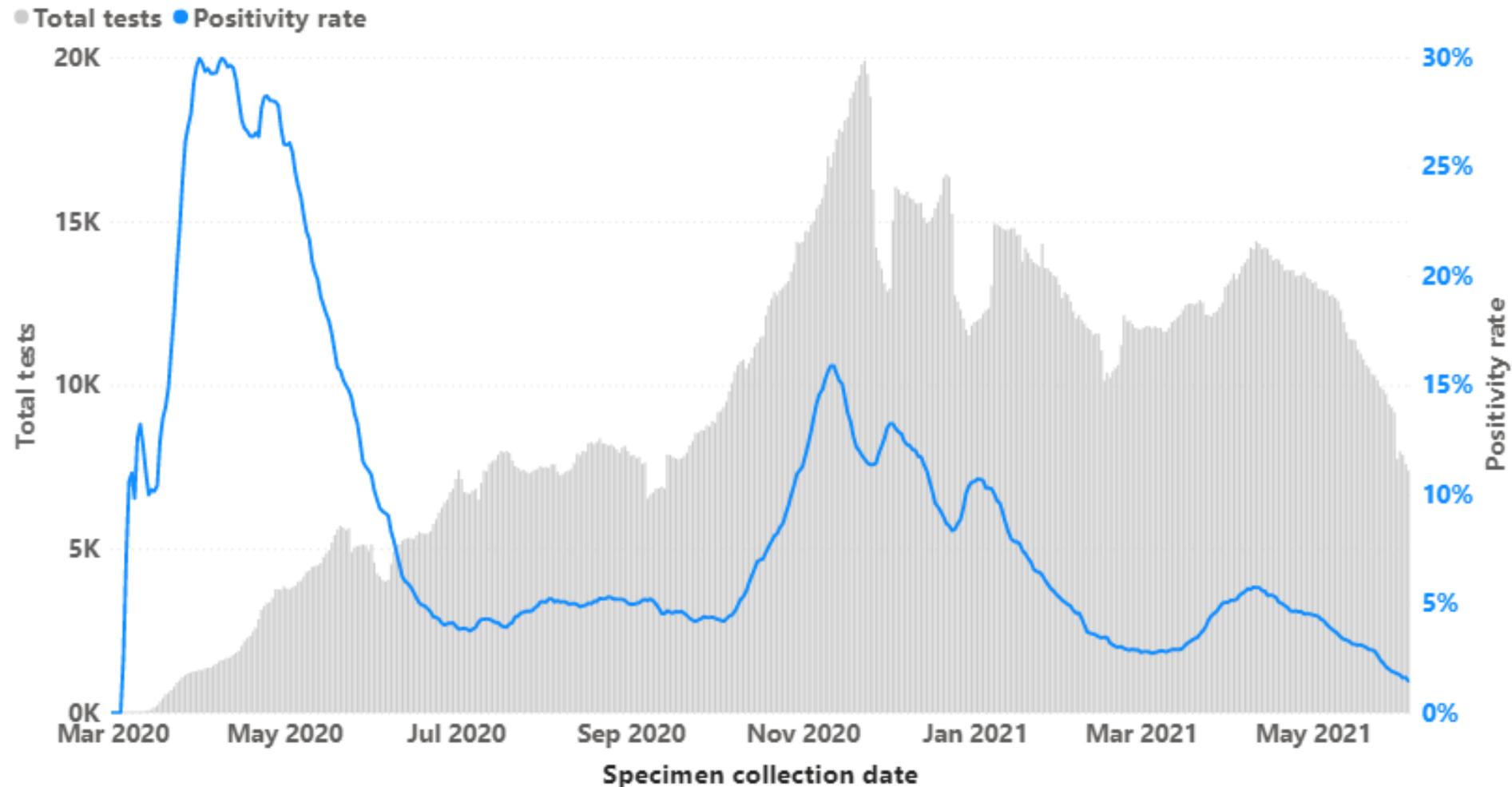
COVID-19 cases, week ending 5/29/21

Percent of population (all ages) that has received at least 1 dose of COVID-19 vaccine

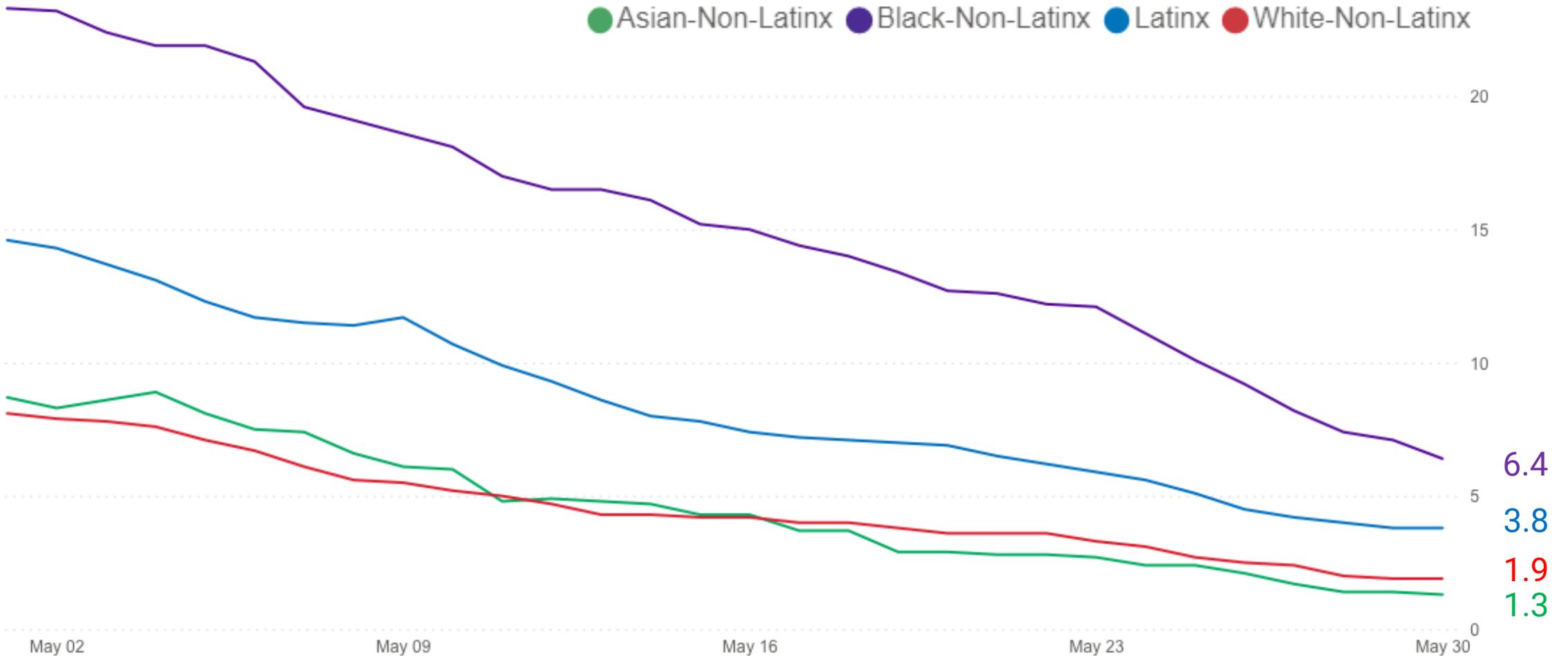


# Test positivity continues to decline: now at **1.6%**--lowest since pandemic began

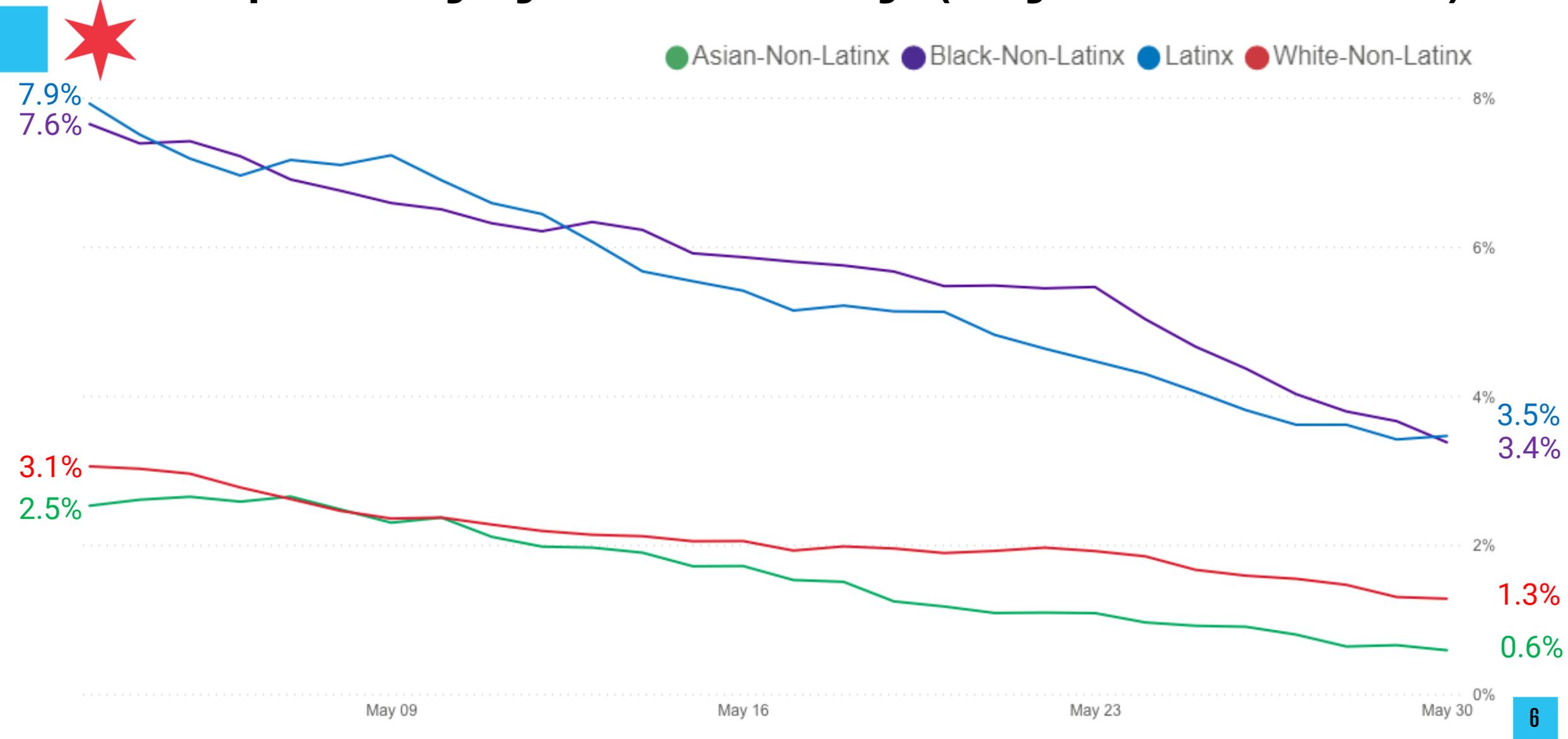
Total tests and Positivity rate among Chicago residents, 7-day rolling average



# New COVID-19 case rates still highest but decreasing in Black Chicagoans; decreasing in Latinx, Asian, and White Chicagoans



# Test positivity by Race-Ethnicity (May 3 – June 3, 2021)

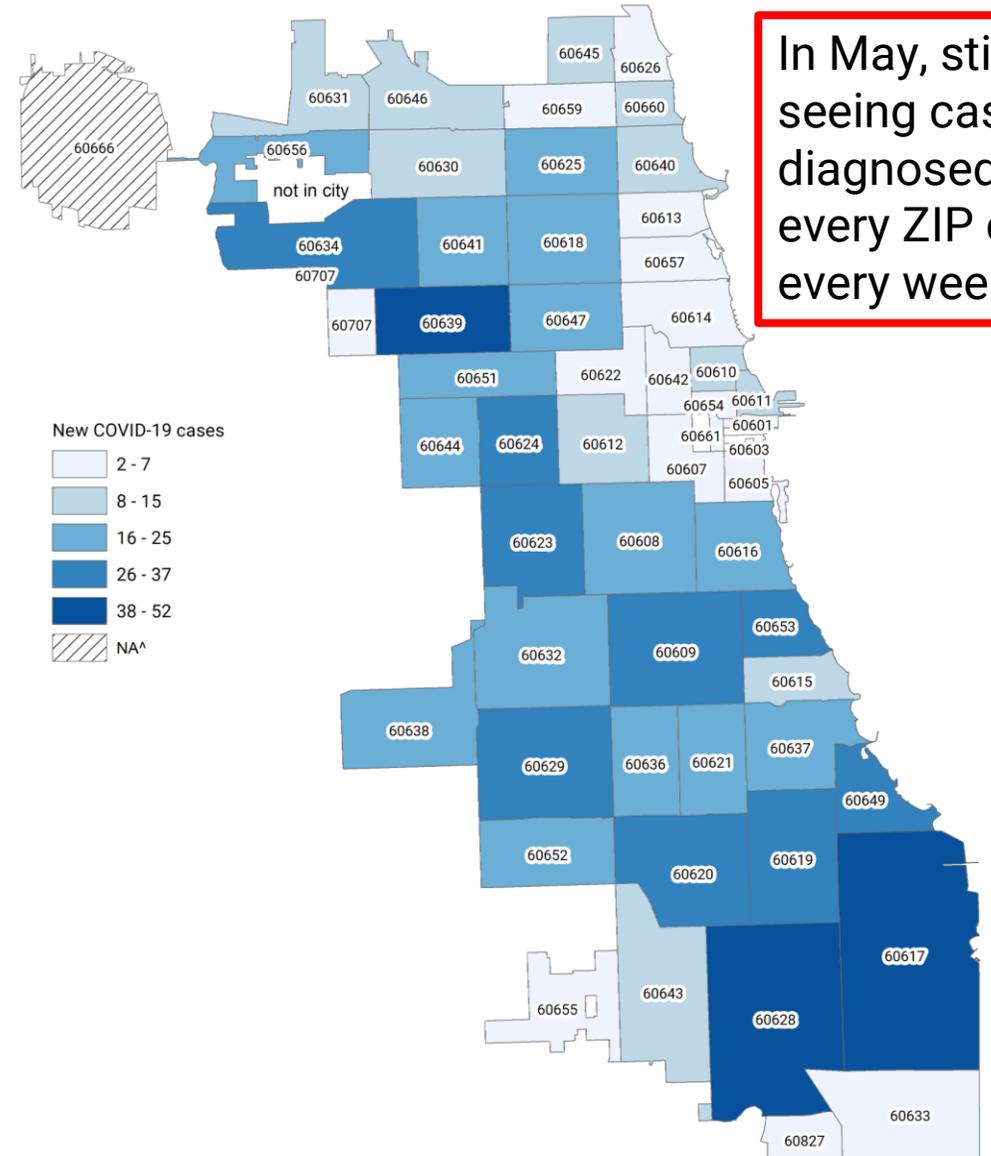
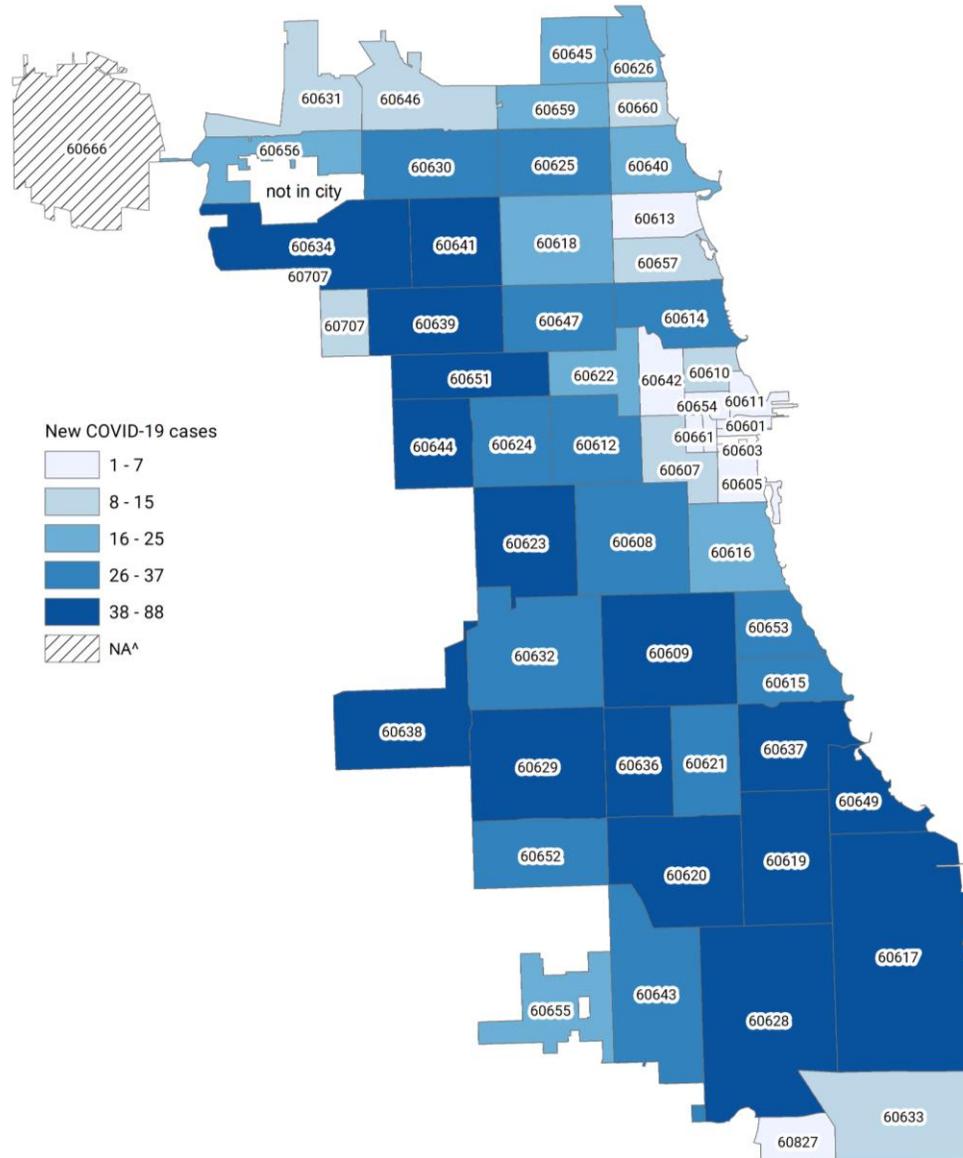
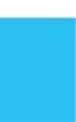


# Changes in weekly case counts by zip code

Week ending 5/22/21 (n=1,677)



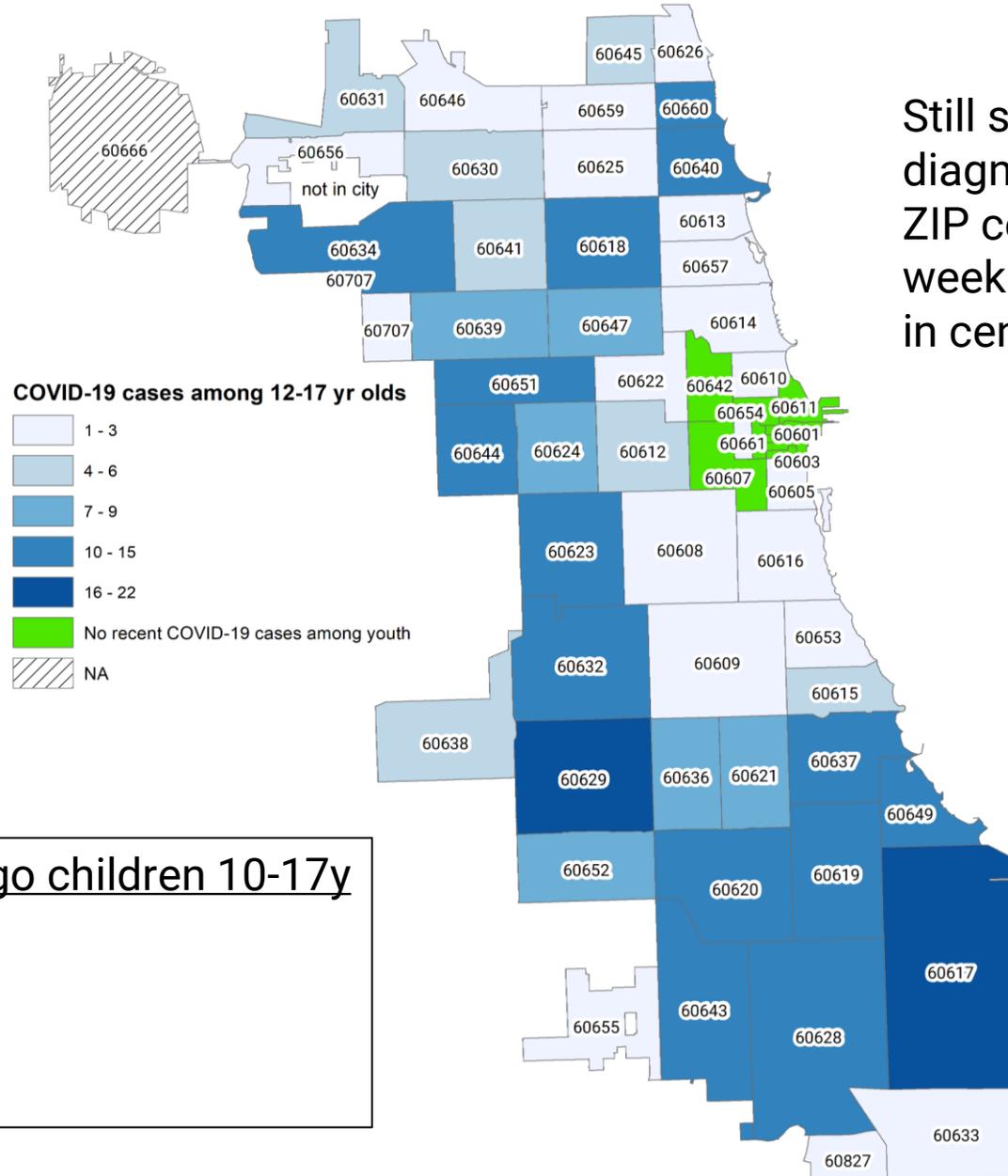
Week ending 5/29/21 (n=944)



In May, still seeing cases diagnosed in every ZIP code every week.

Note: Week is data through the Wednesday after the end date for the week. Week 21 ending May 29<sup>th</sup> and week 20 ending May 22<sup>nd</sup>

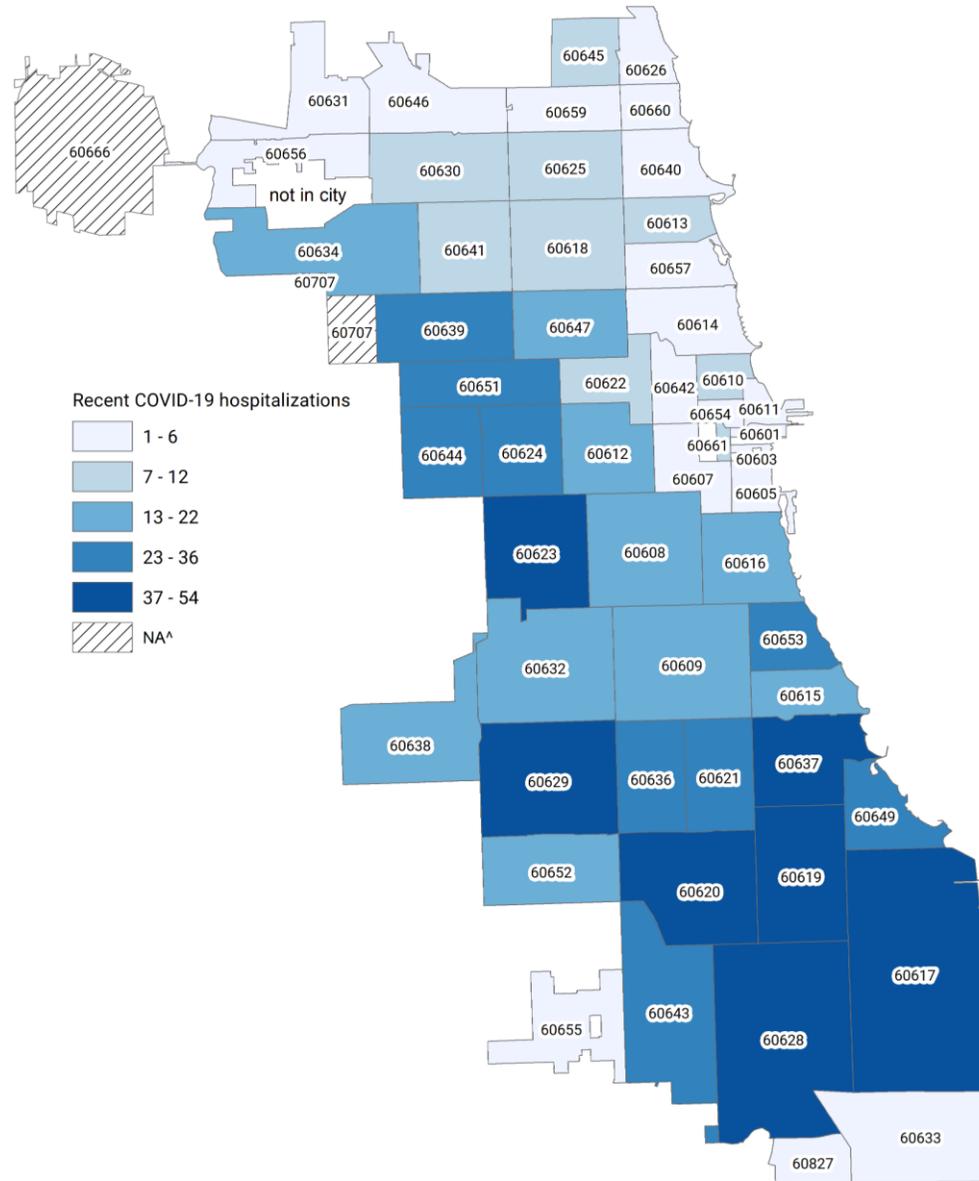
# Recent COVID-19 cases (May 15<sup>th</sup> to May 29<sup>th</sup>) among 12-17-year-olds by Chicago zip code



Still seeing youth cases diagnosed in almost every ZIP code almost every week. (Fewer children live in central/Loop area.)

Demographics of Chicago children 10-17y  
43% Latinx  
33% Black, non-Latinx  
18% White, non-Latinx  
5% Asian, non-Latinx

# Recent COVID-19 hospitalizations by Chicago zip code (May 2–May 29, 2021) n=922



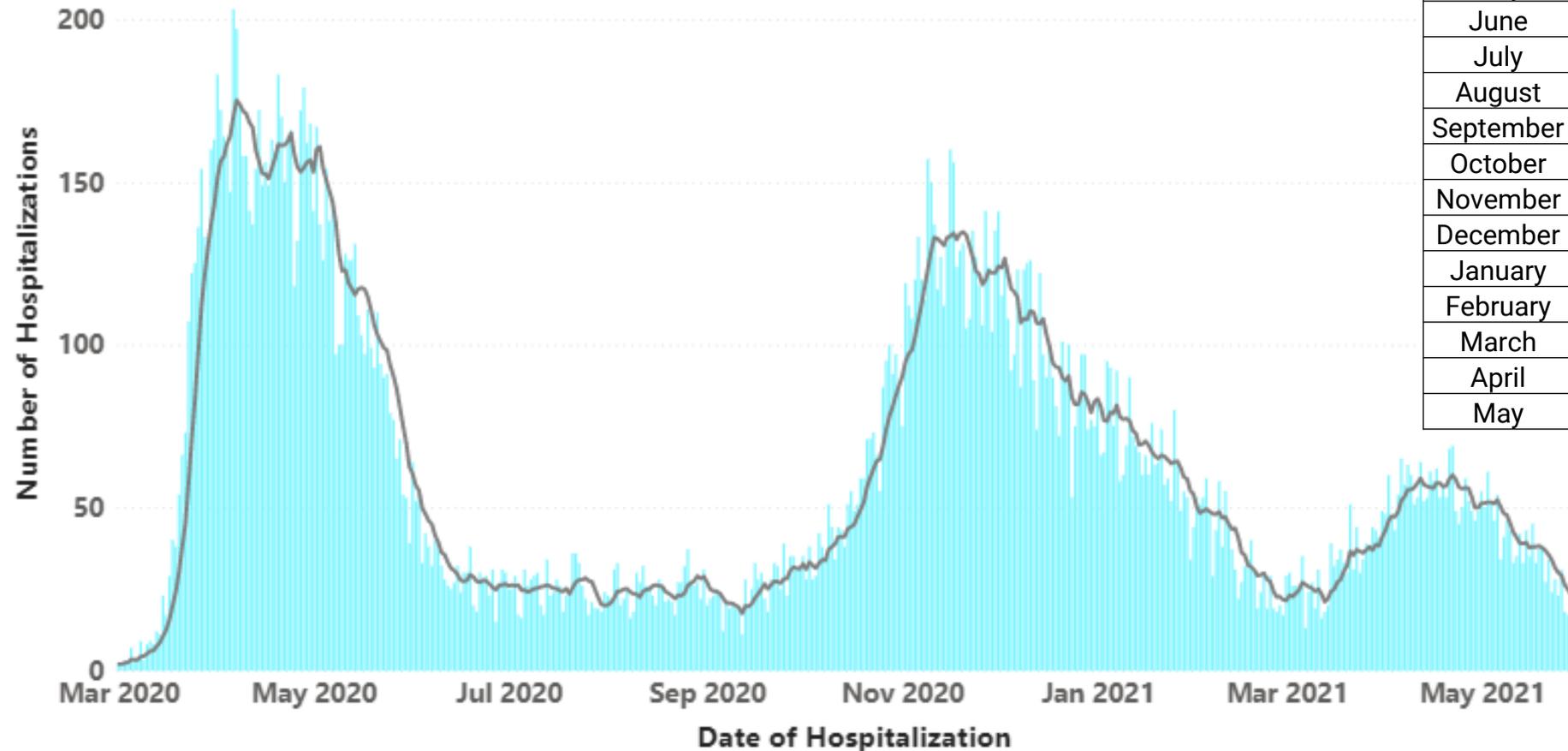
68% of COVID hospitalizations in May were in Black Chicagoans



# Severe outcomes: average of **12** new COVID-19 hospitalizations each day in Chicago residents—lowest since pandemic began.

Daily COVID-19 Chicago resident hospitalizations and 7-day rolling average

● Number of Hospitalizations ● 7-day rolling average



| Month     | Year | Hospital Admits frequency | Cumulative frequency |
|-----------|------|---------------------------|----------------------|
| March     | 2020 | 1,653                     | 1,653                |
| April     | 2020 | 4,860                     | 6,513                |
| May       | 2020 | 3,250                     | 9,763                |
| June      | 2020 | 966                       | 10,729               |
| July      | 2020 | 763                       | 11,492               |
| August    | 2020 | 785                       | 12,277               |
| September | 2020 | 752                       | 13,029               |
| October   | 2020 | 1,743                     | 14,772               |
| November  | 2020 | 3,735                     | 18,507               |
| December  | 2020 | 2,998                     | 21,505               |
| January   | 2021 | 2,066                     | 23,571               |
| February  | 2021 | 978                       | 24,549               |
| March     | 2021 | 989                       | 25,538               |
| April     | 2021 | 1,648                     | 27,186               |
| May       | 2021 | 1,085                     | 28,271               |

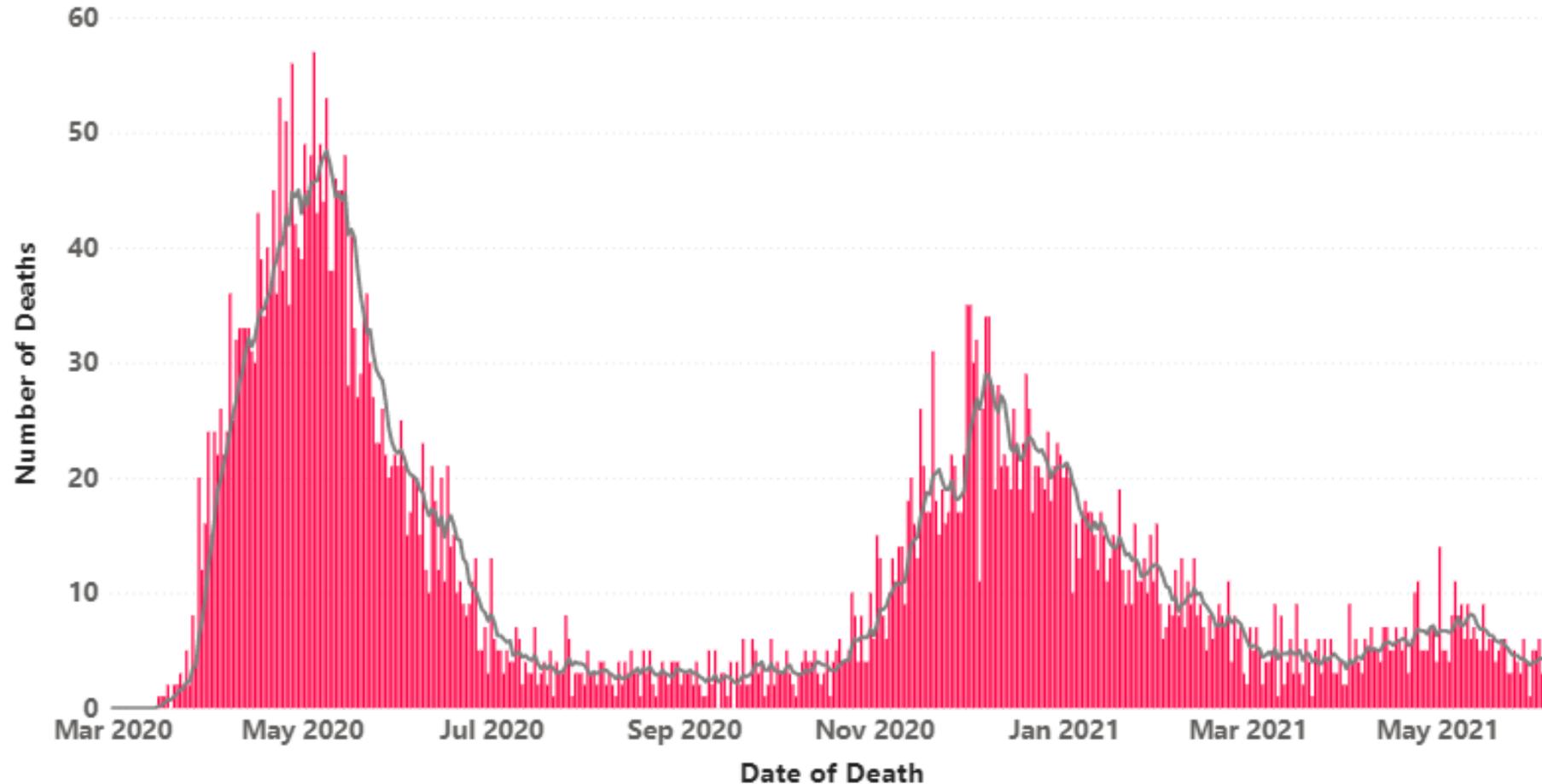
**Current daily average: 12 admissions**

# Severe outcomes: average of 4 COVID-19 deaths each day in Chicago residents

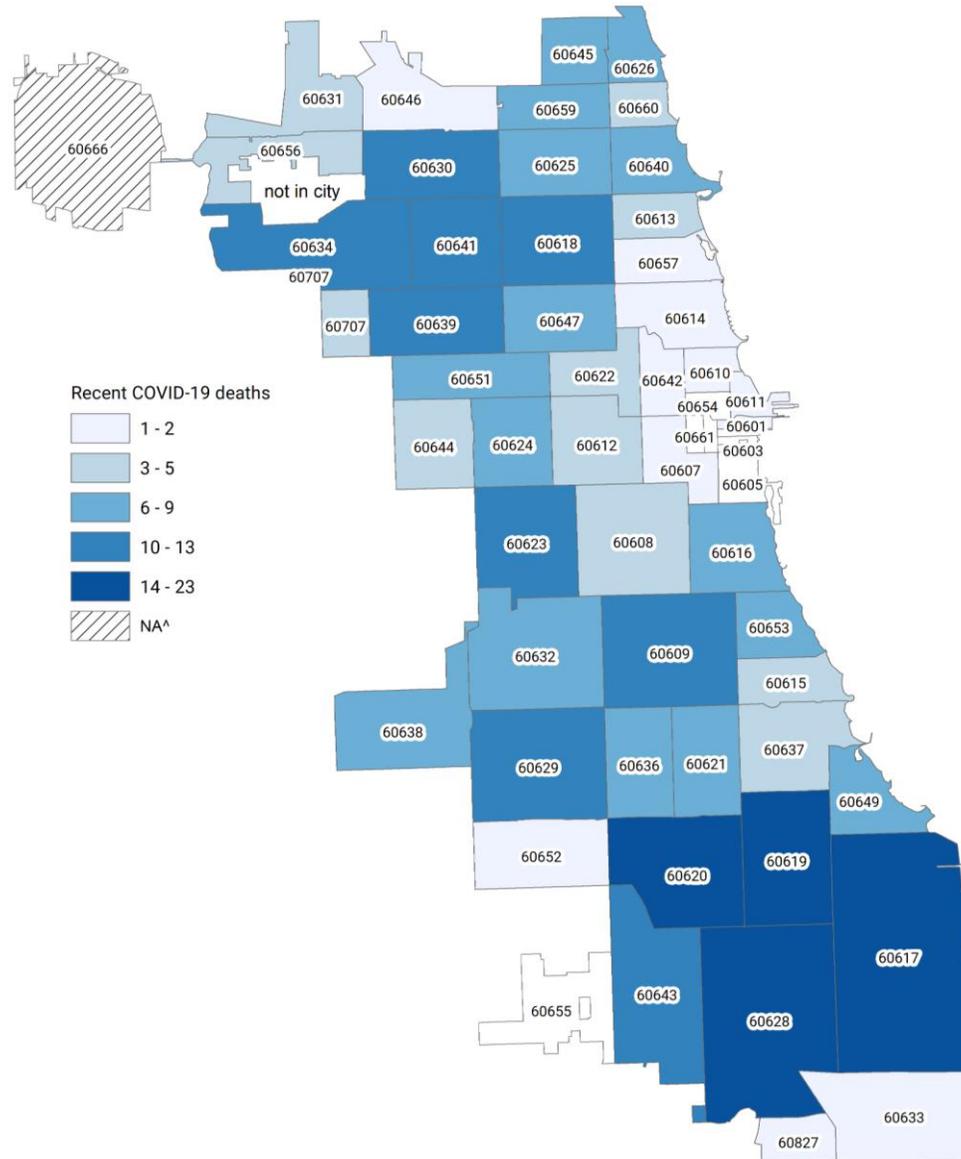


Daily COVID-19 Chicago resident deaths and 7-day rolling average by day of death

● Number of Deaths ● 7-day Rolling Average



# Recent COVID-19 deaths (Mar 21 to May 29, 2021) by Chicago zip code (n=345)





# Skilled Nursing Facility (SNF) COVID-19 Cases, Chicago

- 55 (71%) SNFs are out of outbreak
- 42 (54%) have gone at least 28 days without a single case

First round vaccine clinics began

Second round vaccine clinics began

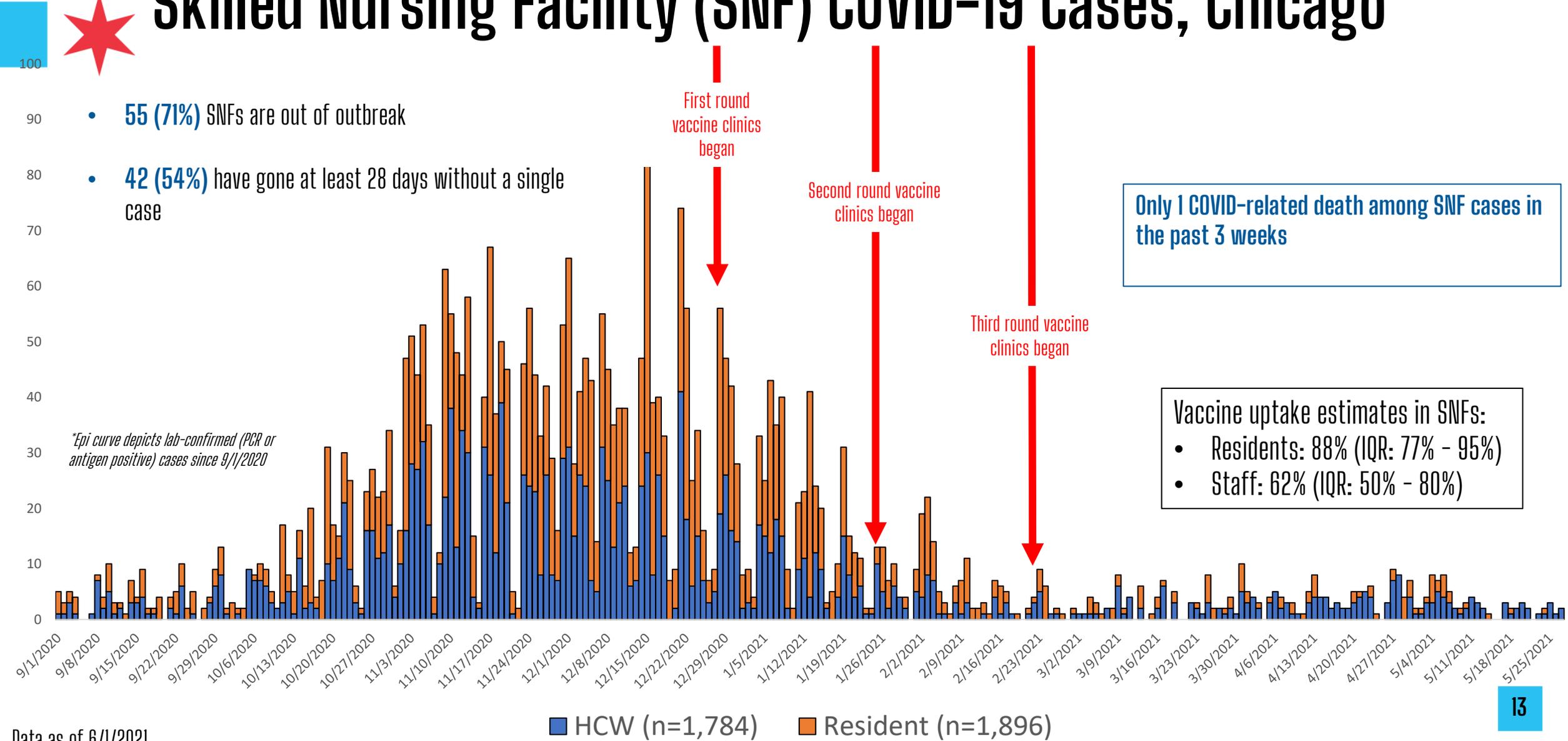
Third round vaccine clinics began

Only 1 COVID-related death among SNF cases in the past 3 weeks

Vaccine uptake estimates in SNFs:

- Residents: 88% (IQR: 77% - 95%)
- Staff: 62% (IQR: 50% - 80%)

*\*Epi curve depicts lab-confirmed (PCR or antigen positive) cases since 9/1/2020*



■ HCW (n=1,784) ■ Resident (n=1,896)



## Severe outcomes: Oldest Chicagoans remain at highest risk for hospitalization and death

Just in the month of May:

- **23** COVID-19 deaths of Chicagoans age 0-49
- **63** COVID-19 deaths of Chicagoans age 50-69
- **96** COVID-19 deaths of Chicagoans age 70+

**Since mid-January, 97% of COVID hospitalizations and 98% of COVID deaths in Chicago have been in people who were not fully vaccinated**

# Wastewater-based epidemiology (WBE) in Chicago

Chicago Prototype Coronavirus Assessment Network Node (PCANN)



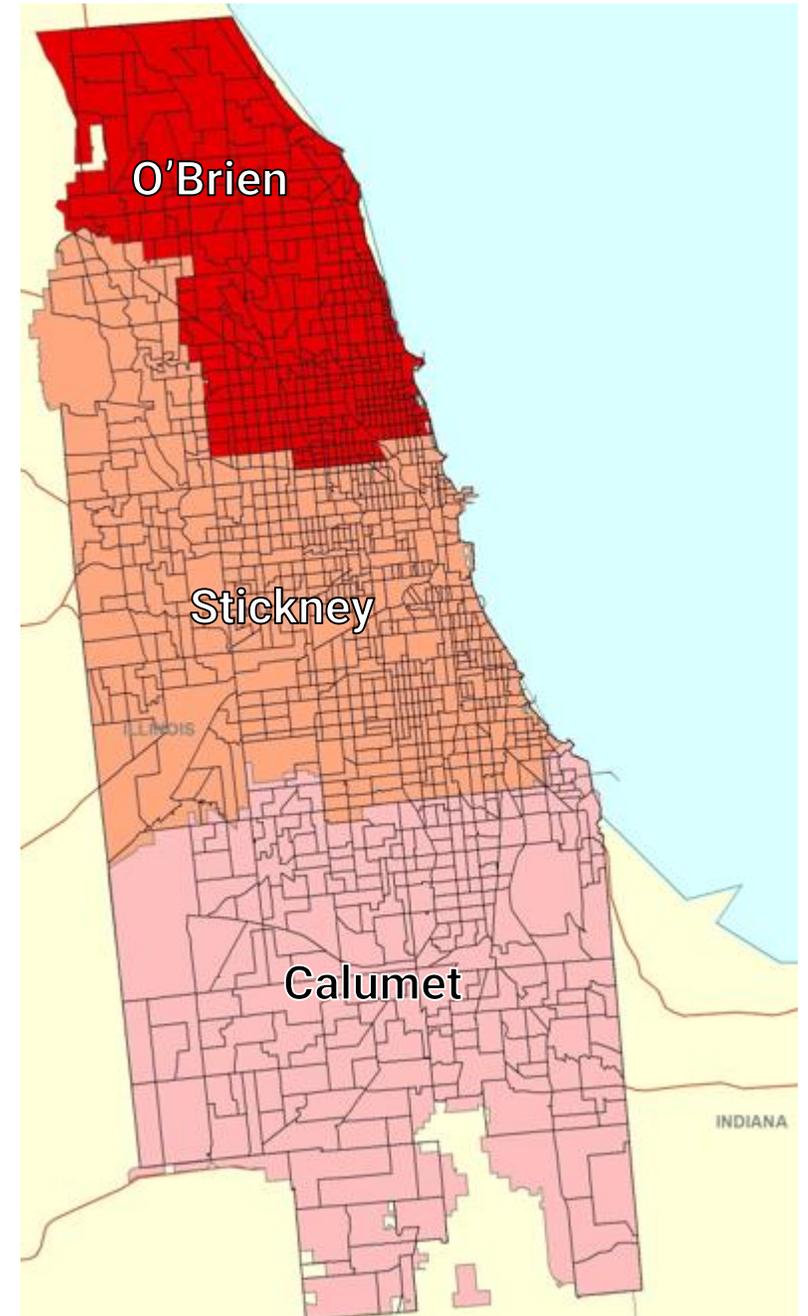
## Objectives:

- Create a Chicago-based wastewater surveillance system for SARS-CoV-2
- Collect composite samples as a non-invasive and cost-effective way to examine community spread
- Give advance warning of emerging hotspots up to a week earlier than traditional tests
- Establish a long-term early warning system for emerging threats

# ★ PCANN's Precision WBE Approach

- Weekly sampling from three water treatment plants
- **Sewer sampling** to detect changes at a more local level
  - O'Hare
  - Cook County Jail
  - Other strategic locations based on vulnerability, representativeness, and other factors
- Source identification through computational modeling and machine learning
- Data visualization and hot spot identification

***Prototype will inform integration with state and national efforts***



# Vaccine Administered

|  | Total Doses | At Least One Dose | Fully Vaccinated (second dose given) |
|--|-------------|-------------------|--------------------------------------|
| Administered at <b>Chicago Sites</b>     | 2,622,278   | 1,483,698         | 1,080,162                            |
| Administered to <b>Chicago Residents</b> | 2,468,808   | 1,407,140         | 1,131,777                            |

**52.2%** of Chicagoans have received a first dose of vaccine

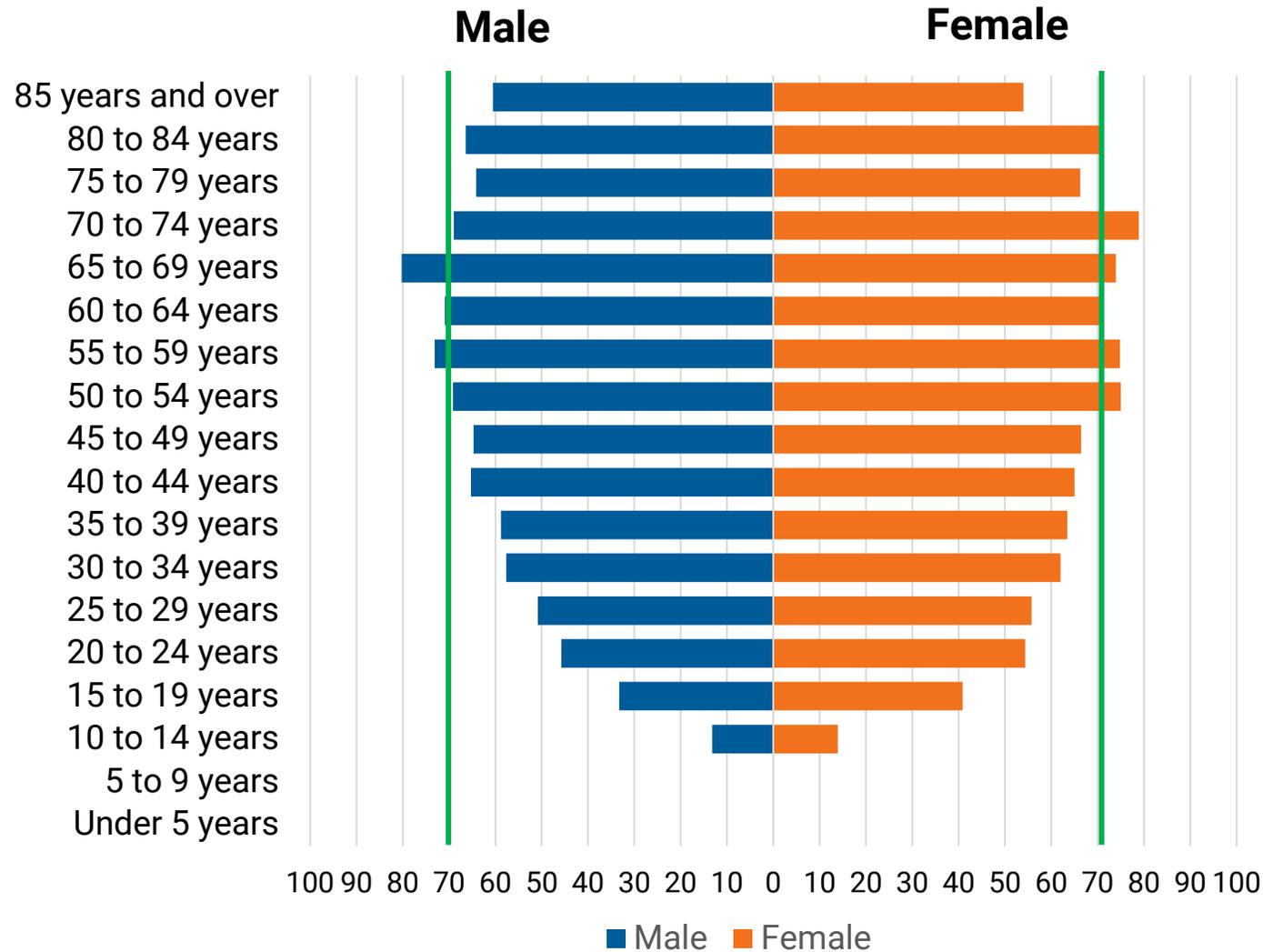
**28.1%** of Chicagoans **12-17 yrs** have received a first dose of vaccine

**63.4%** of Chicagoans **18+ yrs** have received a first dose of vaccine

**70.7%** of Chicagoans **65+ yrs** have received a first dose of vaccine

# At least one dose by age and gender: Percent in Chicago

70% target in green



**Almost all age groups of women 50+ years have first dose coverage at or above 70%**

# Chicago Vaccination by Race-Ethnicity



**52%** of Chicagoans (all ages) have received at least a first vaccine

58% of **White** NL Chicagoans

58% of **Asian** NL Chicagoans

44% of **Latinx** Chicagoans

35% of **Black** NL Chicagoans

**64%** of **adult** Chicagoans (18+) have received at least a first vaccine

65% of **White** NL Chicagoans

65% of **Asian** NL Chicagoans

58% of **Latinx** Chicagoans

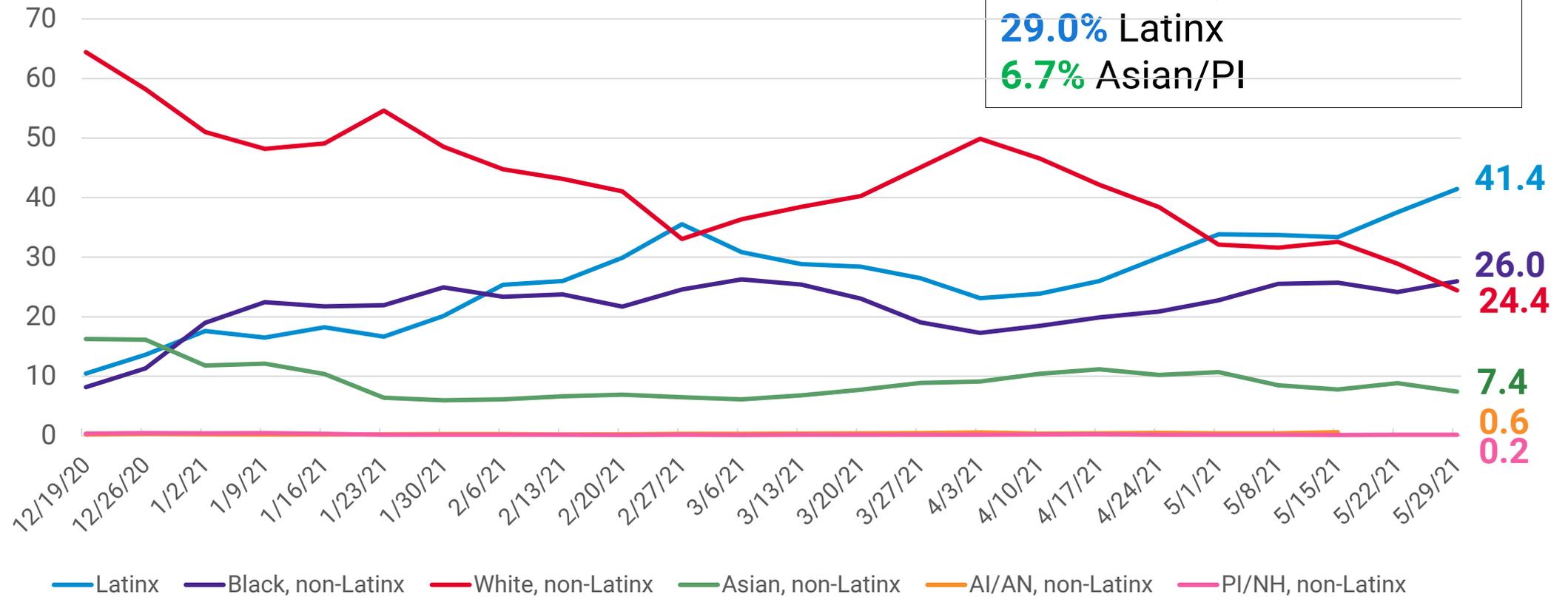
43% of **Black** NL Chicagoans

# Percent of First Doses Administered by Race Ethnicity



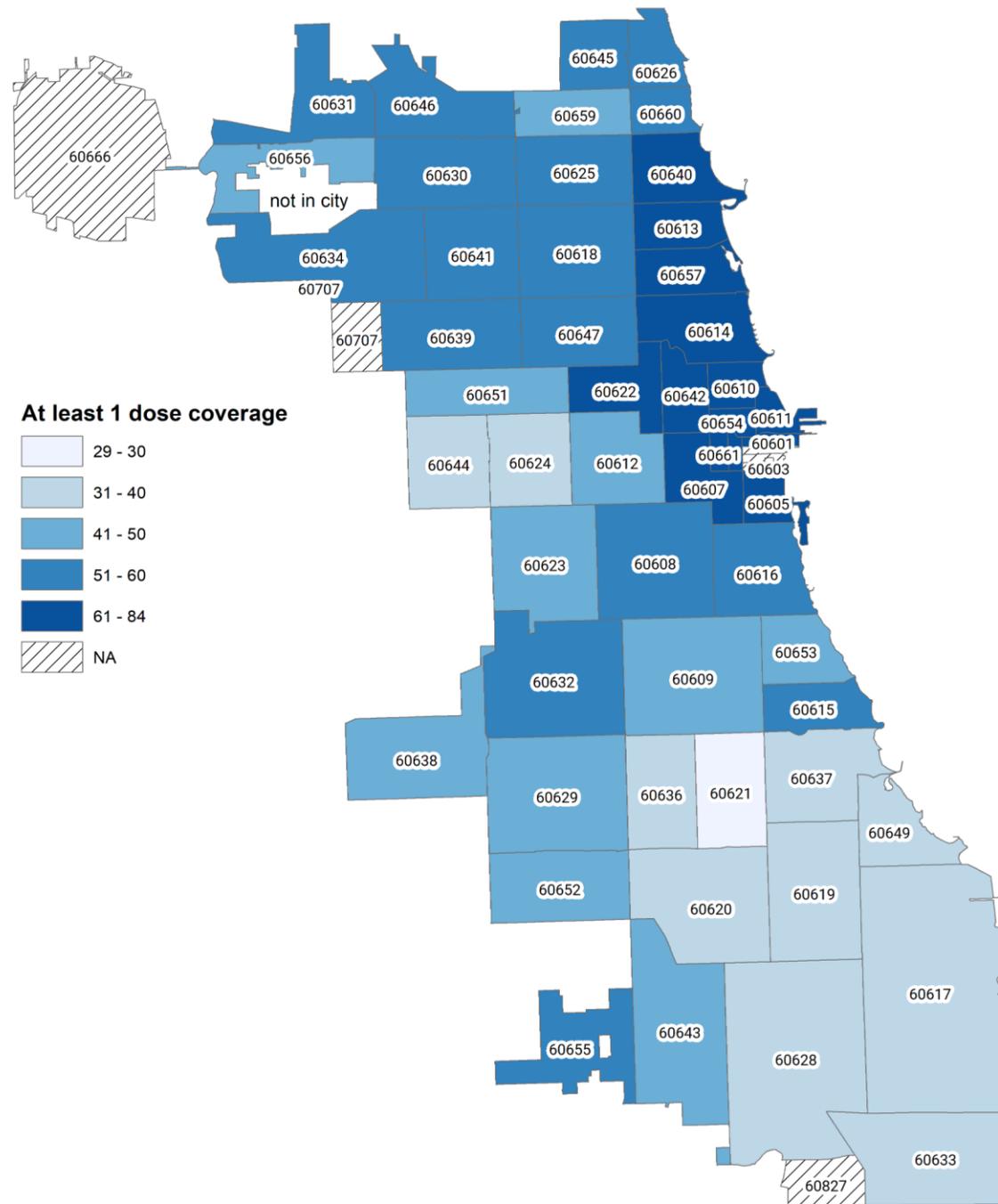
67% of first doses went to Black and Latinx Chicagoans last week

Chicago demographics  
**32.9%** White, non-Latinx  
**29.8%** Black, non-Latinx  
**29.0%** Latinx  
**6.7%** Asian/PI

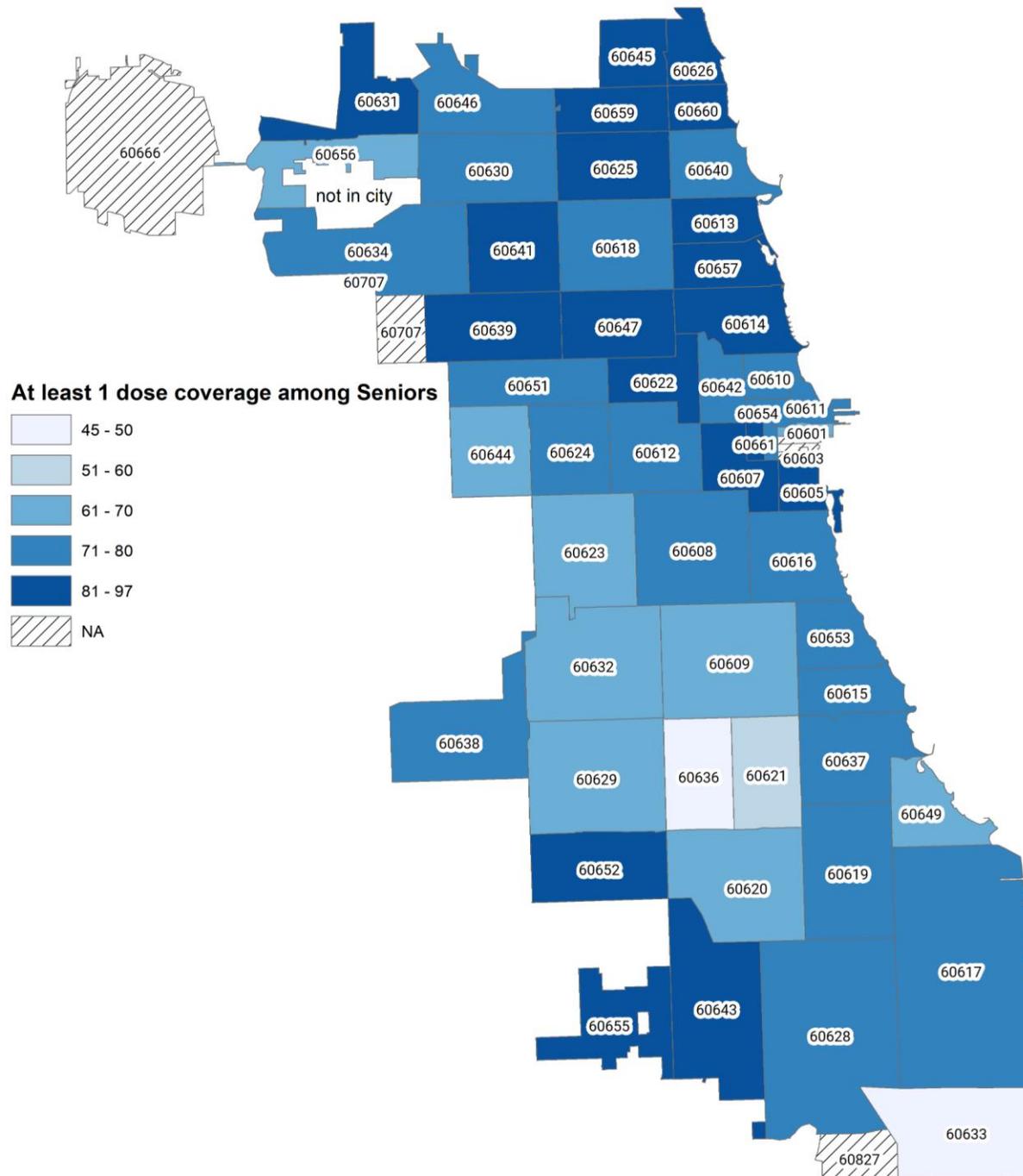


AI/AN = American Indian/Alaska Native, PI/NH = Pacific Islander/Native Hawaiian

Data reported through 5/31/21. Percentage calculated among those with known race ethnicity. Due to a change in how 'Other race' is being captured in I-CARE, 'Other, non-Latinx' is no longer being displayed on this graphic; instead, AI/AN and PI/NH are shown.



**At least one dose coverage by Chicago zip codes through May 31<sup>st</sup>**

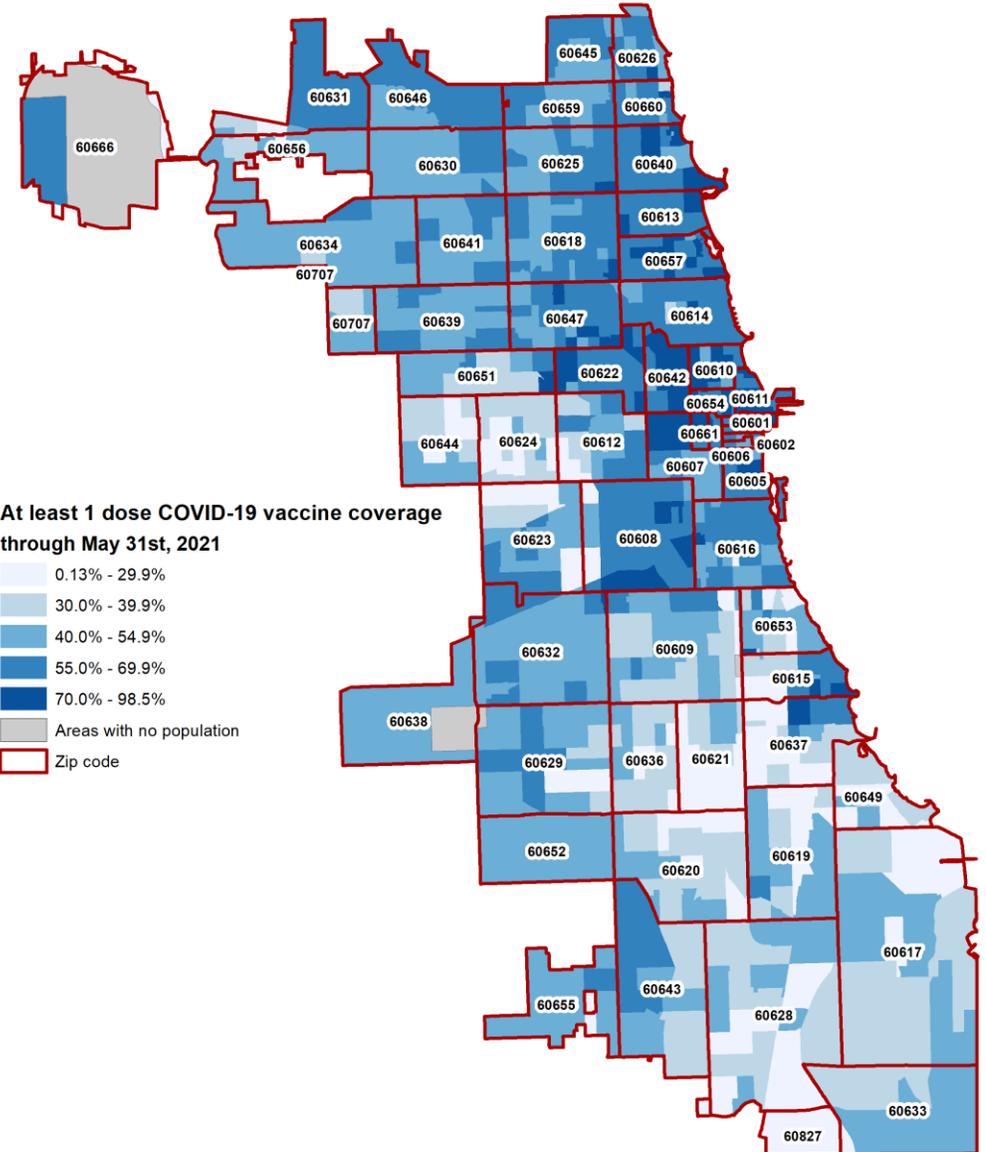
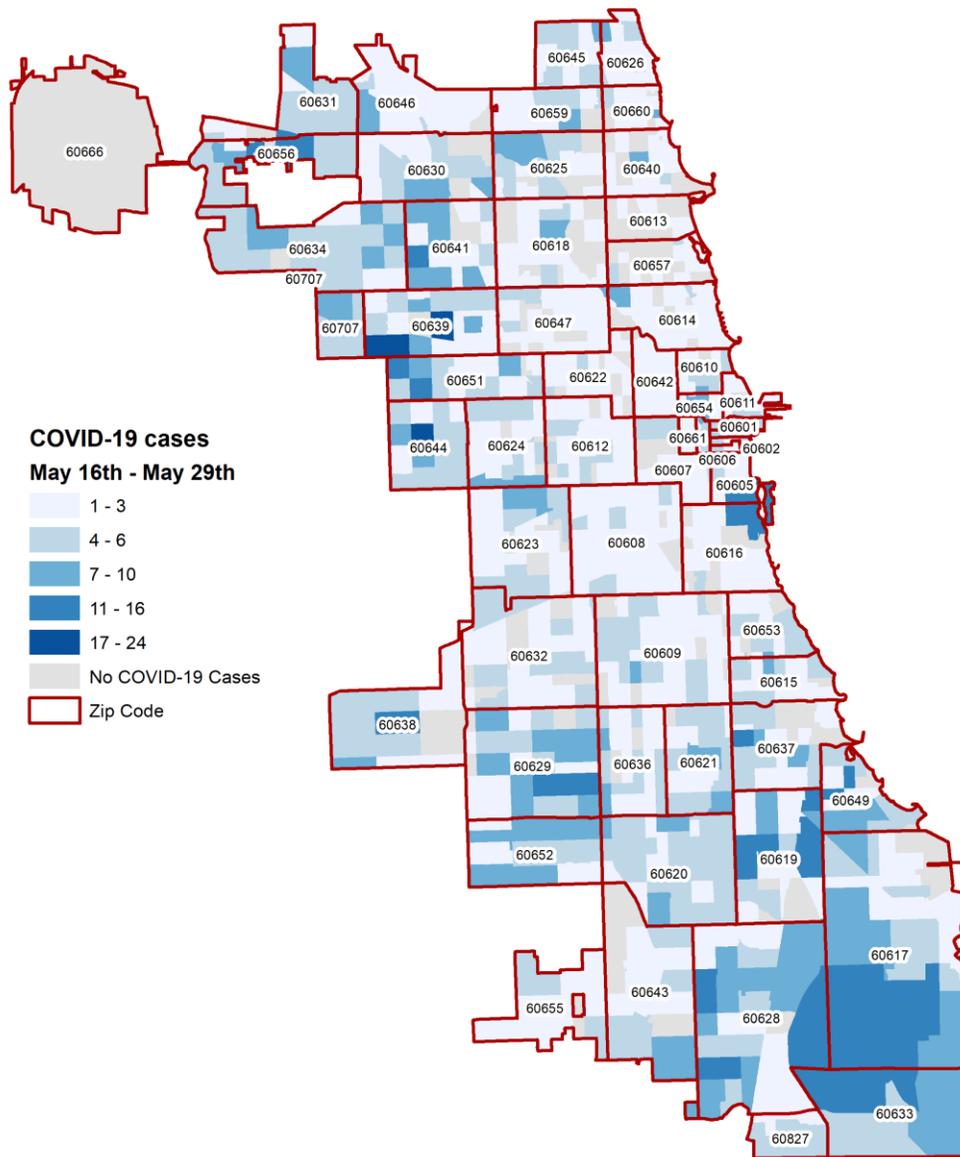


**At least one dose coverage among seniors (65+) by Chicago zip codes through May 31<sup>st</sup>**

# Hyperlocal strategies: Recent case counts and at least 1 dose vaccine coverage

Cases May 16<sup>th</sup> – May 29<sup>th</sup>, 2021

At least 1 dose vaccine coverage through May 31<sup>st</sup>, 2021



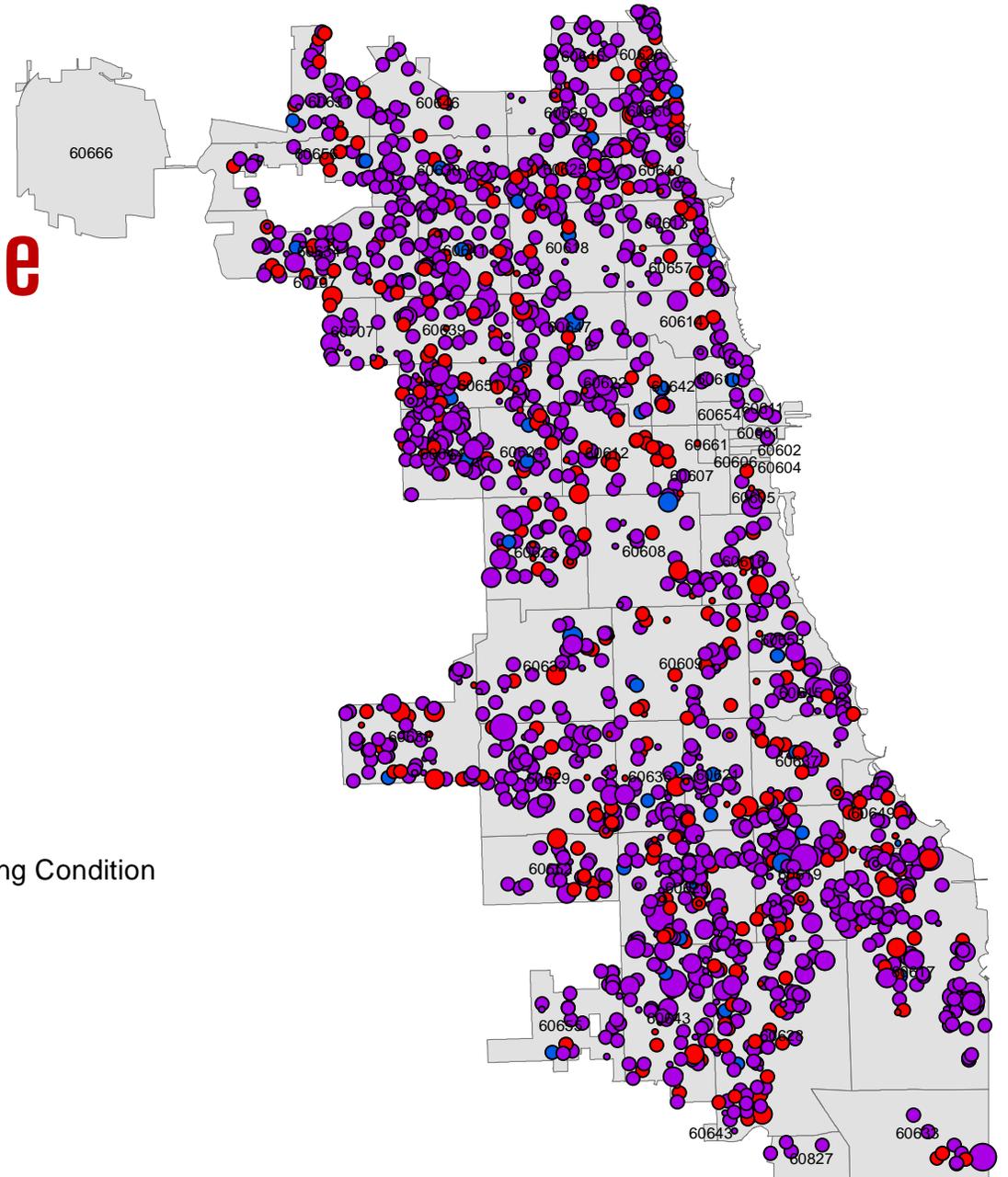
# ★ Protect Chicago Homebound / At Home



Call 312-746-4835 to schedule a FREE home-based vaccine appointment for any Chicago resident who is 65 years or older and/or has a disability. Vaccine will also be brought for any household residents/caregivers. No insurance or identification required.



# First Doses for Protect Chicago Homebound/At Home



## Doses Administered

(n = 2557\*)

- Vaccination Pending
- 1 - 2
- 3 - 5
- 6 - 8

## Type of Individual Served

- 65 + & At Least One Disabling/Disabling/Impairing Condition
- At Least One Disabling/Impairing Condition
- 65+

\*Not all individuals had usable addresses, n = 2986

# ★ Block-by-Block Community Canvassing



# ★ Vax and Relax – Vaccine Events with Barbershops



# ★ Incentives: Six Flags + Protect Chicago Music Series



Age 12+ appointments available now

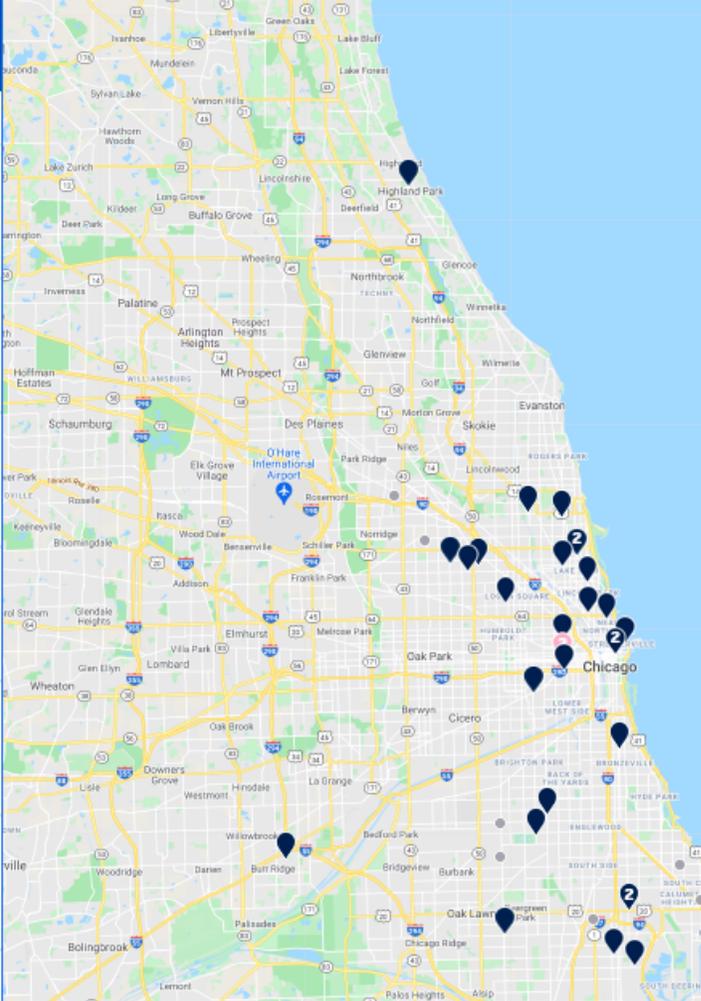


Appointments are available right now on [Zocdoc.com/vaccine](https://www.zocdoc.com/vaccine) and at **312-746-4835**

🔔 Get notified when there are more available appointments  
COVID-19 vaccine doses are currently in limited supply. If you are not able to find local availability now, we'll notify you when appointment times are available. [Notify me](#)

### COVID-19 Vaccine

|   |  |  |
|---|--|--|
|    | <b>Family Urgent Care - Chicago Location</b><br>COVID-19 Vaccination Facility<br>Chicago, IL - Vaccine<br>1631 N Halsted St, Chicago, IL, 60614  | 📅 Appointments available Today<br><a href="#">View availability</a>      |
|    | <b>United Center</b><br>COVID-19 Vaccination Facility<br>Johnson & Johnson<br>1724 W Madison St, Lot E entrance from Madison, Chicago, IL, 60612 | 📅 Appointments available Tomorrow<br><a href="#">View availability</a>   |
|    | <b>United Center</b><br>COVID-19 Vaccination Facility<br>Johnson & Johnson<br>1724 W Madison St, Lot E entrance from Madison, Chicago, IL, 60612 | 📅 Appointments available Tomorrow<br><a href="#">View availability</a>   |
|   | <b>Esperanza Vaccine Southwest</b><br>COVID-19 Vaccination Facility<br>Moderna - 18+ ONLY<br>6057 S. Western Ave., Chicago, IL, 60636            | 📅 Appointments available Today<br><a href="#">View availability</a>      |
|  | <b>Mount Sinai Hospital</b><br>COVID-19 Vaccination Facility<br>1500 S Fairfield Ave, Chicago, IL, 60608   | 📅 Appointments available Tomorrow<br><a href="#">View availability</a>   |
|  | <b>InstaVaxx LLC - Chicago Location</b><br>COVID-19 Vaccination Facility<br>InstaVaxx LLC<br>2674 N Halsted St, Chicago, IL, 60614               | 📅 Appointments available Wed, May 5<br><a href="#">View availability</a> |
|  | <b>Chicago State University</b><br>COVID-19 Vaccination Facility   | 📅 Appointments available Today   |



# Hot Spot Map - Average daily COVID-19 cases per 100K people

