## Chicago COVID-19 Community Risk Matrix - Phase IV

<table>
<thead>
<tr>
<th>Metric</th>
<th>Very high risk</th>
<th>High risk</th>
<th>Moderate risk</th>
<th>Lower risk</th>
<th>Low risk: Controlled transmission</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COVID-19 cases diagnosed per day</strong></td>
<td>800+</td>
<td>400 – 799</td>
<td>200 – 399</td>
<td>20 – 199</td>
<td>&lt;20</td>
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<tr>
<td>(Chicago residents 7-day rolling daily average)</td>
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<tr>
<td><strong>COVID-19 test positivity</strong></td>
<td>10%+</td>
<td>6.6 - 9.9%</td>
<td>5.0 - 6.5%</td>
<td>2 - 4.9%</td>
<td>&lt;2%</td>
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<tr>
<td>(Chicago residents 7-day rolling daily average)</td>
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<tr>
<td><strong>Hospital beds (non-ICU) occupied by COVID patients</strong></td>
<td>1250+</td>
<td>750-1249</td>
<td>250 - 749</td>
<td>100 - 249</td>
<td>&lt;100</td>
</tr>
<tr>
<td>(Chicago hospitals 7-day rolling daily average)</td>
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<td></td>
</tr>
<tr>
<td><strong>ICU beds occupied by COVID patients</strong></td>
<td>400+</td>
<td>300 - 399</td>
<td>100 - 299</td>
<td>20 - 99</td>
<td>&lt;20</td>
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<td>(Chicago hospitals 7-day rolling daily average)</td>
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</table>

**Additional considerations within each risk level**

- *Metric will revert to very high risk if 7+ consecutive days ≥15% higher than the week prior*
- *Metric will revert to high risk if 5+ consecutive days ≥10% higher than the week prior*
- Metrics must continue to decrease or remain stable relative to the week prior
- Metrics must continue to decrease or remain stable relative to the week prior

Source: Chicago Department of Public Health, data current as of June 3, 2021. These metrics represent general community COVID risk and should not be applied to individual settings that have mitigation practices in place.
New COVID-19 cases in Chicago continue to decline: now fewer than 100 (91) new cases per day—lowest since pandemic began.
Recent COVID-19 cases are concentrated in less vaccinated Chicago communities

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

Chi.gov/coviddash. Cases diagnosed in week ending 5/29 by ZIP code (n=944)

Chi.gov/coviddash. Vaccine coverage by ZIP code through 5/31
Test positivity continues to decline: now at 1.6%—lowest since pandemic began
New COVID-19 case rates still highest but decreasing in Black Chicagoans; decreasing in Latinx, Asian, and White Chicagoans

Chi.gov/coviddash Data pulled 6/3/21. Daily rate per 100,000 population
Test positivity by Race-Ethnicity (May 3 – June 3, 2021)

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

May 09: 7.9%
May 16: 7.6%
May 23: 3.1%
May 30: 2.5%
June 03: 1.3%
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 29th and week 20 ending May 22nd
Recent COVID-19 cases (May 15th to May 29th) 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

Please note that COVID-19 hospitalizations can have significant reporting delays

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.

Current daily average: 12 admissions

Data pulled 6/7/21
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

Data pulled 6/7/21
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
- 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%)

Data as of 6/1/2021
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

Reported as of 6/7/21
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**

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

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

Data reported through 6/2/2021.
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%

Data reported through 6/2/21.
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

Data pulled 6/3/21 NL=non-Latinx
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 31st
At least one dose coverage among seniors (65+) by Chicago zip codes through May 31st
Hyperlocal strategies: Recent case counts and at least 1 dose vaccine coverage

Cases May 16th – May 29th, 2021

At least 1 dose vaccine coverage through May 31st, 2021
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

As of May 28, 2021
Block-by-Block Community Canvassing
Vax and Relax – Vaccine Events with Barbershops
Incentives: Six Flags + Protect Chicago Music Series
Appointments are available right now on Zocdoc.com/vaccine and at 312-746-4835

Age 12+ appointments available now
Hot Spot Map - Average daily COVID-19 cases per 100K people

Worldwide:
172 Million Cases
3.7 Million Deaths

Sources: Local governments; The Center for Systems Science and Engineering at Johns Hopkins University; National Health Commission of the People’s Republic of China; World Health Organization.