Protecting Chicago: Phase III Re-Opening Metrics Update

June 19, 2020
(Analysis as of 6/12/2020)
<table>
<thead>
<tr>
<th>Category</th>
<th>Stop: May need to delay moving ahead</th>
<th>Caution: Pause and monitor</th>
<th>Go: Cautious progress</th>
<th>Go: Continued progress</th>
<th>Go: Advanced progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cases</td>
<td>Any sustained increase &gt;14 days within phase</td>
<td>Increase 0-14 days</td>
<td>Stable or decrease 0-13 days w/o preceding increase</td>
<td>Stable or decrease 14-28 days</td>
<td>Stable or decrease &gt;28 days and/or sustained &lt;200 new cases per day (1 case per 10,000 persons)</td>
</tr>
<tr>
<td>Hospitalizations</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Deaths</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>COVID Emergency department visits</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Positivity rate</td>
<td>&gt;15% citywide</td>
<td>13-15%</td>
<td>10-13%</td>
<td>7-10%</td>
<td>&lt;7%</td>
</tr>
<tr>
<td>Hospital system capacity</td>
<td>&gt;1280 non-ICU beds &gt;480 ICU beds &gt;360 ventilators</td>
<td>&gt;1000 non-ICU beds &gt;400 ICU beds &gt;300 ventilators</td>
<td>&lt;1000 non-ICU beds occupied by COVID patients &lt;400 ICU beds occupied by COVID patients &lt;300 ventilators occupied by COVID patients</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Testing capacity</td>
<td>Unexplained decline in testing &lt;4500 tests/day</td>
<td>Explained decline in testing &lt;4500 tests/day</td>
<td>Stable testing &gt;5% of residents per month (&gt;4500 tests/day); or increase to &gt;6500 diagnostic tests/day</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response capacity</td>
<td>N/A</td>
<td>N/A</td>
<td>Initiate case investigation within 24h of assignment for 50% of cases 75% of cases 90% of cases</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
COVID-19 Confirmed Cases
GO: CAUTIOUS PROGRESS
COVID-19 cases decreasing since June 3rd

COVID-19 cases, daily counts and rolling 7-day average, report date

Trend
Stable 7 days (5/14-5/21)
Decrease 22 days (5/21-6/12)

Daily COVID-19 cases with known specimen report date. *14-day incidence is calculated by summing all new cases in the most recent 14 day period and dividing by 14 days to find an average. Incidence gating rank is determined using 14-day average incidence/100,000 population. The gating rank categories are defined as follows. LOW (1-10); MODERATE (11-50); MODERATELY HIGH (51-99); HIGH (100+). Daily counts for most recent dates displayed are likely incomplete.
COVID-19 cases among Black, non-Latinx residents, daily counts and rolling 7-day average, report date

Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates displayed are likely incomplete.

GO: CAUTIOUS PROGRESS
Black, non-Latinx cases decreasing since June 3rd

Trend
Stable 7 days (5/14-5/21)
Decrease 22 days (5/21-6/12)

Incidence gating rank is determined using 14-day average incidence/100,000 population. The gating rank categories are defined as follows. LOW (1-10); MODERATE (11-50); MODERATELY HIGH (51-99); HIGH (100+).
GO: CAUTIOUS PROGRESS
New Latinx cases stable or decreasing since June 3rd

COVID-19 cases among Latinx residents, daily counts and rolling 7-day average, report date

Trend
Decrease 21 days (5/14-6/4)
Stable 6 days (6/4-6/10)
Decrease 2 days (6/10-6/12)

Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates displayed are likely incomplete. *14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average. Incidence gating rank is determined using 14-day average incidence/100,000 population. The gating rank categories are defined as follows. LOW (1-10); MODERATE (11-50); MODERATELY HIGH (51-99); HIGH (100+).
COVID-19 cases among Asian, non-Latinx residents, daily counts and rolling 7-day average, report date

Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates displayed are likely incomplete. *14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average. Incidence gating rank is determined using 14-day average incidence/100,000 population. The gating rank categories are defined as follows. LOW (1-10); MODERATE (11-50); MODERATELY HIGH (51-99); HIGH (100+).
CAUTION: PAUSE AND MONITOR
White, non-Latinx cases stable or increasing since June 3rd

COVID-19 cases among white, non-Latinx residents, daily counts and rolling 7-day average, report date

Trend
- Stable 3 days (5/14-5/17)
- Decrease 19 days (5/17-6/5)
- Increase 5 days (6/5-6/10)
- Stable 2 days (6/10-6/12)

Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates displayed are likely incomplete.*14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average. Incidence gating rank is determined using 14-day average incidence/100,000 population. The gating rank categories are defined as follows. LOW (1-10); MODERATE (11-50); MODERATELY HIGH (51-99); HIGH (100+).
COVID-19 Severe Outcomes
GO: CAUTIOUS PROGRESS
Daily COVID-19 hospital admissions decreasing since June 3rd

COVID-19 Hospital admissions, daily counts and rolling 7-day average, first known hospital admit date

Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to not have been hospitalized. Six records with hospital admit dates from January and February 2020 are excluded from this chart.
GO: CAUTIOUS PROGRESS
Black, non-Latinx hospital admissions decreasing since June 3\textsuperscript{rd}

COVID-19 hospital admissions among Black, non-Latinx residents, daily counts and rolling 7-day average, first known hospital admit date

<table>
<thead>
<tr>
<th>Trend</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decrease 8 days</td>
<td>5/14-5/22</td>
</tr>
<tr>
<td>Stable 4 days</td>
<td>5/22-5/26</td>
</tr>
<tr>
<td>Decrease 5 days</td>
<td>5/26-5/31</td>
</tr>
<tr>
<td>Stable 3 days</td>
<td>5/31-6/3</td>
</tr>
<tr>
<td>Decrease 9 days</td>
<td>6/3-6/12</td>
</tr>
</tbody>
</table>

Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to not have been hospitalized. Six records with hospital admit dates from January and February 2020 are excluded from this chart.
GO: CAUTIOUS PROGRESS
Latinx hospital admissions stable or decreasing since June 3rd

COVID-19 hospital admissions among Latinx residents, daily counts and rolling 7-day average, first known hospital admit date

<table>
<thead>
<tr>
<th>Trend</th>
<th>Decrease 7 days (5/14-5/21)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stable 3 days (5/21-5/24)</td>
</tr>
<tr>
<td></td>
<td>Decrease 11 days (5/24-6/4)</td>
</tr>
<tr>
<td></td>
<td>Stable 3 days (6/4-6/7)</td>
</tr>
<tr>
<td></td>
<td>Decrease 5 days (6/7-6/12)</td>
</tr>
</tbody>
</table>

Hospital admissions are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to not have been hospitalized. Six records with hospital admit dates from January and February 2020 are excluded from this chart.
GO: CAUTIOUS PROGRESS
Asian non-Latinx hospital admissions at low incidence since June 3rd

COVID-19 hospital admissions among Asian, non-Latinx residents, daily counts and rolling 7-day average, first known hospital admit date

Trend: Below 2 avg. daily admissions for 21 days

Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to not have been hospitalized. Six records with hospital admit dates from January and February 2020 are excluded from this chart.
GO: CAUTIOUS PROGRESS

White, non-Latinx hospital admissions decreasing since June 3rd

COVID-19 hospital admissions among white, non-Latinx residents, daily counts and rolling 7-day average, first known hospital admit date

Trend

- Stable 4 days (5/14-5/18)
- Decrease 8 days (5/18-5/26)
- Stable 4 days (5/26-5/30)
- Decrease 13 days (5/30-6/12)

Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to not have been hospitalized. Six records with hospital admit dates from January and February 2020 are excluded from this chart.
GO: CAUTIOUS PROGRESS
COVID-19 deaths decreasing for since June 3rd

COVID-19 deaths, daily counts and rolling 7-day average, deceased date

Trend
Stable 3 days (5/14-5/17)
Decrease 26 days (5/17-6/12)

Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. Daily counts for most recent dates displayed are likely incomplete.
Emergency Department Visits
ILI: Influenza-like illness. Percentage of all emergency department visits reported with influenza-like illness symptoms among Chicago residents.

Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.
GO: CAUTIOUS PROGRESS
ED visits for COVID-like illness stable and decreasing since June 3rd

Percentage of all emergency department visits reported with COVID-like symptoms among Chicago residents. Trend analysis only assess the last 27 days.

Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.
Percent Positivity
GO: ADVANCED PROGRESS
Percent positivity less than 7% citywide; testing increasing

COVID-19 tests, 7-day rolling average for percent positive (one test per individual ever) and for counts (one test per individual per day)

For percent positivity: Every individual tested is counted once. The first positive test is the date used for the test result. If the individual has only negative tests, the date of the first negative test is used. (INEDSS) For 7-day rolling average of counts: All tests performed on Chicago residents as reported by electronic lab reporting (IDPH).
Hospital System Capacity
GO: CAUTIOUS PROGRESS
Non-ICU capacity adequate: <1,000 non-ICU beds occupied by patients with COVID-19

COVID-19 acute/non-ICU beds occupied, daily counts, 7 day average and reopening threshold, daily occupancy census

Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning April 3 (acute non-ICU occupancy). Acute non-ICU bed counts include burn, emergency department, med/surg, other, pediatrics and psychiatry beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases.

Goal is below 1000
517
GO: CAUTIOUS PROGRESS
ICU capacity adequate: <400 ICU beds occupied by patients with COVID-19

COVID-19 ICU beds occupied, daily counts, 7 day average and progress threshold, daily occupancy census

Goal is below 400

Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, the definition of ICU status changed as requested by HHS.
GO: CAUTIOUS PROGRESS
Ventilator capacity adequate: <300 patients with COVID-19 on ventilators

COVID-19 ventilators in use, daily counts, 7 day average and reopening threshold, daily utilization census

Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, ventilator counts include all full-functioning mechanical ventilators, BiPAP, anesthesia machines and portable/transport ventilators.
Diagnostic Testing Capacity
COVID-19 tests, daily count and 7-day moving average, all test results

Goal is 4,500 or more per day

All COVID-19 tests performed on Chicago residents per day as reported by electronic lab reporting from IDPH. 4,500 tests per day represents the capacity to test 5% of Chicago residents per month. Daily counts for most recent dates displayed are likely incomplete.