Protecting Chicago: Phase IV Re-Opening Metrics Update

July 25, 2020
(Data current through 7/22/2020)
### CDPH COVID-19 Phase IV Starting June 26, 2020

<table>
<thead>
<tr>
<th>Metric</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 7-day rolling daily average</td>
<td>Any sustained increase &gt;14 days within the past 28 days</td>
<td>Increase 0-14 days (in most recent 14-day period)</td>
<td>Stable or decrease 0-13 days (w/o increase in most recent 14-day period)</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 (~100 cases per 100,000 persons)</td>
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<tr>
<td>Hospitalizations 7-day rolling daily average</td>
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<tr>
<td>Deaths 7-day rolling daily average</td>
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<tr>
<td>COVID Emergency department visits 7-day rolling daily average</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Positivity rate 7-day rolling daily average</td>
<td>&gt;10%</td>
<td>5%-10%</td>
<td>&lt;5%</td>
<td>&lt;5%</td>
<td>&lt;5%</td>
</tr>
<tr>
<td>Hospital system capacity 7-day rolling daily average</td>
<td>&gt;1280 non-ICU beds</td>
<td>&gt;1000 non-ICU beds</td>
<td>&lt;1000 non-ICU beds occupied by COVID patients</td>
<td>&lt;400 ICU beds occupied by COVID patients</td>
<td>&lt;300 ventilators occupied by COVID patients</td>
</tr>
<tr>
<td>Hospital system capacity 7-day rolling daily average</td>
<td>&gt;480 ICU beds</td>
<td>&gt;400 ICU beds</td>
<td>&lt;400 ICU beds occupied by COVID patients</td>
<td>&lt;300 ventilators occupied by COVID patients</td>
<td></td>
</tr>
<tr>
<td>Hospital system capacity 7-day rolling daily average</td>
<td>&gt;360 ventilators</td>
<td>&gt;300 ventilators</td>
<td>&lt;300 ventilators occupied by COVID patients</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Testing capacity 7-day rolling daily average</td>
<td>Unexplained decline in testing &lt;4500 total tests/day</td>
<td>Explained decline in testing &lt;4500 total tests/day</td>
<td>Stable testing &gt;4500 total tests/day</td>
<td></td>
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<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</td>
<td>75% of cases</td>
<td>90% of cases</td>
</tr>
</tbody>
</table>
COVID-19 Confirmed Cases
COVID-19 case incidence in Chicago is high and stable, with a recent 5 day decrease.

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 daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as. LOW (1-10); MODERATELY LOW (11-25); MODERATE (11-50); MODERATELY HIGH (51-99); HIGH (100+) and presented as corresponding daily counts color-coded to gating category. Daily counts for most recent dates displayed are likely incomplete.
Black, non-Latinx case incidence is high and growing, with a recent 4 day decrease.

<table>
<thead>
<tr>
<th>Recent Trend</th>
<th>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 daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as follows. LOW (1-10); MODERATELY LOW (11-25); MODERATE (26-50); MODERATELY HIGH (51-99); HIGH (100+) and presented as corresponding daily counts color-coded to gating category.</th>
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<tr>
<td>Decrease 5 days (6/18-6/23)</td>
<td>Increase 9 days (6/23-7/2) Stable 3 days (7/2-7/5) Increase 8 days (7/5-7/13) Decrease 4 days (7/13-7/17)</td>
</tr>
</tbody>
</table>
Latinx case incidence is persistently high. Cases have been stable for > 28 days.

COVID-19 cases among Latinx residents, daily counts and rolling 7-day average, specimen collection 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 daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as follows. LOW (1-10); MODERATELY LOW (11-25); MODERATE (26-50); MODERATELY HIGH (51-99); HIGH (100+) and presented as corresponding daily counts color-coded to gating category.
Asian, non-Latinx case incidence is moderate and stable. Cases have been stable or decreasing for 17 days.

COVID-19 cases among Asian, non-Latinx residents, daily counts and rolling 7-day average, specimen collection date

Recent Trend
Increase 10 days (6/18-6/28)
Decrease 7 days (6/28-7/5)
Stable 7 days (7/5-7/12)
Decrease 5 days (7/12-7/17)

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 daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as follows. LOW (1-10); MODERATELY LOW (11-25); MODERATE (26-50); MODERATELY HIGH (51-99); HIGH (100+) and presented as corresponding daily counts color-coded to gating category.
White, non-Latinx case incidence is moderately high and stable, with a recent 5 day decrease.

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

Recent Trend
Stable 3 days (6/18-6/21)
Increase 8 days (6/21-6/29)
Stable 7 days (6/29-7/6)
Increase 6 days (7/6-7/12)
Decrease 5 days (7/12-7/17)

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 daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as follows. LOW (1-10); MODERATELY LOW (11-25); MODERATE (26-50); MODERATELY HIGH (51-99); HIGH (100+) and presented as corresponding daily counts color-coded to gating category.
COVID-19 cases among 18-29 year olds, daily counts and rolling 7-day average, specimen

Recent Trend

- Stable 2 days (6/18-6/20)
- Increase 11 days (6/20-7/1)
- Stable 4 days (7/1-7/5)
- Increase 9 days (7/5-7/14)
- Decrease 3 days (7/14-7/17)

Daily COVID-19 cases with known specimen report date and race/ethnicity information. 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 daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as follows. LOW (1-10); MODERATELY LOW (11-25); MODERATE (26-50); MODERATELY HIGH (51-99); HIGH (100+) and presented as corresponding daily counts color-coded to gating category.
COVID-19 Severe Outcomes
Daily COVID-19 hospital admissions decreasing for 6 days after a recent increase.

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

**Recent Trend**
- Decrease 10 days (6/18-6/28)
- Stable 8 days (6/28-7/6)
- Increase 5 days (7/6-7/11)
- Decrease 6 days (7/11-7/17)

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. Peak daily admissions based on rolling 7-day average.
Black, non-Latinx hospital admissions decreasing for 4 days after a recent increase.

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

Hospital Admissions

Recent Trend
Stable 7 days (6/18-6/25)
Increase 5 days (6/25-6/30)
Decrease 7 days (6/30-7/7)
Increase 6 days (7/7-7/13)
Decrease 4 days (7/13-7/17)

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. Peak daily admissions based on rolling 7-day average.
Latinx hospital admissions decreasing for 3 days after a recent increase.

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

**Recent Trend**
- Stable 14 days (6/18-7/2)
- Decrease 6 days (7/2-7/8)
- Increase 6 days (7/8-7/14)
- Stable 3 days (7/14-7/17)

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. Peak daily admissions based on rolling 7-day average.
Asian non-Latinx hospital admissions at near-zero incidence for >28 days.

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

Hospital Admissions

Recent Trend Below 2 avg. daily admissions for 30 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. Peak daily admissions based on rolling 7-day average.
White, non-Latinx hospital admissions at low incidence for >28 days.

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

<table>
<thead>
<tr>
<th>Recent Trend</th>
<th>Below 5 avg. daily admissions for 30 days</th>
</tr>
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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. Peak daily admissions based on rolling 7-day average.
COVID-19 deaths are decreasing for >28 days.

Recent Trend: Decrease 29 days (6/18-7/17)

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

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
Proportion of ED visits for influenza-like illnesses have been increasing for 14 of the last 17 days

Recent Trend

- Decrease 12 days (6/20-7/2)
- Increase 9 days (7/2-7/11)
- Stable 3 days (7/11-7/14)
- Increase 5 days (7/14-7/19)

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.
ED visits for COVID-like illness are stable or decreasing for >28 days.

Recent Trend
- Decreasing 3 days (6/20-6/23)
- Stable 15 days (6/23-7/8)
- Decreasing 11 days (7/8-7/19)

Percentage of all emergency department visits reported with COVID-like symptoms among Chicago residents.

Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.
Percent Positivity
Percent positivity is decreasing to 4.6% with consistently widespread testing.

COVID-19 tests, 7-day rolling average for percent positive (one test per individual ever) and for counts (one test per individual per day), starts May 25

Goal is under 5%

For percent positivity and 7-day rolling average of counts: 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)
Focus on 18-29 year-olds: Percent positivity is decreasing to 5.4% with consistently widespread testing.

For percent positivity and 7-day rolling average of counts: 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)
Hospital System Capacity
Non-ICU bed occupancy 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.
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

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.
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

Goal is below 300

Ventilator capacity adequate: <300 patients with COVID-19 on ventilators.

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 testing above 4,500 tests per day for 39 straight days. Currently at 6,996 tests 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.