Protecting Chicago: Phase IV Re-Opening Metrics Update

September 26, 2020
(Data current through 9/23/2020)
## 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</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 and/or sustained &lt;200 new cases per day (~100 cases per 100,000 persons)</td>
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<tr>
<td>Hospitalizations</td>
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<tr>
<td>Deaths</td>
<td></td>
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<tr>
<td>COVID Emergency department visits</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Positivity rate</td>
<td>&gt;10%</td>
<td>5% - 10%</td>
<td>&lt;5% of all daily tests are confirmed positive</td>
<td></td>
<td></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>
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<tr>
<td>Testing capacity</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>
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</tr>
<tr>
<td>Response capacity</td>
<td>N/A</td>
<td>N/A</td>
<td>Assign case for investigation within 24h for 50% of cases 75% of cases 90% of cases</td>
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</tbody>
</table>
COVID-19 Confirmed Cases
COVID-19 case incidence in Chicago is persistently high. Cases have largely been declining or stable since 8/20.

Labor Day reductions in testing on 9/7 have artificially lowered case incidence through 9/13.

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 (26-50); MODERATELY HIGH (51-99); HIGH (100+).
COVID-19 case incidence is sharply declining among Latinx; unknown sharply increasing.

COVID-19 cases among Chicago residents by race/ethnicity, rolling 7-day average, specimen collection

Labor Day reductions in testing on 9/7 have artificially lowered case incidence through 9/13.

Peak 14-day Incidence
- Latinx 429 avg. daily cases 5/6/2020
- Black, non-Latinx 204 avg. daily cases 4/24/2020
- Asian, non-Latinx 21 avg. daily cases 4/26/2020
- White, non-Latinx 107 avg. daily cases 4/30/2020

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.
Black case incidence is now moderately high. Cases have been largely decreasing and stable since 8/17.

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

Labor Day reductions in testing on 9/7 have artificially lowered case incidence through 9/13.

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.
Latinx case incidence is very high and declining. Cases have been decreasing or 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 increasing for 11 days.

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

Labor Day reductions in testing on 9/7 have artificially lowered case incidence through 9/13.

Recent Trend
Decrease 18 days (8/20-9/7)
Increase 11 days (9/7-9/18)

14-day incidence
MODERATE
(5 avg. daily cases*)

14-day slope
STABLE
+0.1 cases per day

Peak 14-day incidence
21 avg. daily cases
4/26/2020

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 case incidence is now moderately high and stable. Cases slowly decreasing since 8/20

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

| Recent Trend | Cases | 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.
| 14-day incidence | MODERATELY HIGH (57 avg. daily cases*) |
| 14-day slope | STABLE -0.7 cases per day |
| Peak 14-day incidence | 107 avg. daily cases 4/30/2020 |

Labor Day reductions in testing on 9/7 have artificially lowered case incidence through 9/13.
COVID-19 Severe Outcomes
COVID-19 hospital admissions have been stable or decreasing for 22 days.

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

Recent Trend
- Stable 3 days (8/20-8/23)
- Increase 4 days (8/23-8/27) 1 A/D
- Decrease 14 days (8/27-9/10)
- Stable 8 days (9/10-9/18)

Peak 7-day rolling average
- 173 avg. daily admissions
- 4/12/2020

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, hospital admissions stable or decreasing for 16 days and are now at low incidence.

COVID-19 hospital admissions among Black, non-Latinx residents, 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. Peak daily admissions based on rolling 7-day average.
Latinx hospital admissions at low incidence for >28 days.

COVID-19 hospital admissions among Latinx residents, 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. Peak daily admissions based on rolling 7-day average.

<table>
<thead>
<tr>
<th>Recent Trend</th>
<th>At or below 6 avg. daily admissions for 30 days</th>
</tr>
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<tr>
<td>Peak 7-day rolling average</td>
<td>57 avg. daily admissions 4/28/2020</td>
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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

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

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 stable at 3 or 4 deaths per day.

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

Recent Trend | At or below 4 avg. daily deaths for 30 days
---|---
Peak 7-day rolling average | 48 avg. daily deaths 5/9/2020

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 has been decreasing for 16 days.

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 has been decreasing for 21 days.

| Recent Trend | Increase 8 days (8/22-8/30) | Decrease 21 days (8/30-9/20) |

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.
Test Positivity Rate
Test positivity is 4.5%. Rate decreased in the past week despite sharp increases in testing

As of 7/30/2020, test positivity is being reported rather than percent positivity. Test positivity is the number of positive tests divided by all tests performed in contrast to percent positivity which is the number of individuals tested positive divided by the total number of individuals tested (Source: INEDSS). For positivity rates among demographic subgroups and zip codes CDPH will continue reporting by individuals tested.
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.

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. Increases seen in past 2 weeks.

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

Goal is below 300
Diagnostic Testing Capacity
COVID-19 testing above 4,500 tests per day for 95 straight days. Testing numbers have recovered after holiday weekend.

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.
Case Investigation & Contact Tracing Response
Cases assigned for case investigation within 24 hours has met or nearly met the target since the week of July 25.