Protecting Chicago: Phase IV Re-Opening Metrics Update

July 11, 2020
(Analysis as of 7/8/2020)
<table>
<thead>
<tr>
<th>CDPH COVID-19 Phase IV starting June 26 2020</th>
</tr>
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- **Cases**: 7-day rolling daily average
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- **Positivity rate**: 7-day rolling daily average
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**Notes:**
- **Stable or decrease >28 days** and/or sustained <200 new cases per day (~100 cases per 100,000 persons)
- **Initiate case investigation within 24h of assignment for 50% of cases**
- **75% of cases**
- **90% of cases**
COVID-19 Confirmed Cases
COVID-19 case incidence in Chicago is moderately high and stable. After 18 days of stable and decreasing, cases increased for 8 days before decreasing again.

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

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.
COVID-19 cases among Black, non-Latinx residents, daily counts and rolling 7-day average, lab specimen 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.
Latinx case incidence is high but declining. Cases have been stable or decreasing for >28 days.

COVID-19 cases among Latinx residents, daily counts and rolling 7-day average, lab specimen 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 moderately low and stable.

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

**Trend**
Below 2 average daily cases for 3 days

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 moderate and increasing. Cases have been stable or increasing for 15 days.

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

Trend
- Stable 7 days (6/4-6/11)
- Decrease 7 days (6/11-6/18)
- Increase 13 days (6/18-7/1)
- Stable 2 days (7/1-7/3)

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 Severe Outcomes
Daily COVID-19 hospital admissions stable or decreasing for >28 days.

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.
Black, non-Latinx hospital admissions stable or decreasing for >28 days. Stable for most recent 7 days.

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

| Trend | Decrease 22 days (6/4-6/26) | Stable 7 days (6/26-7/3) |

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

Hospital Admissions

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.
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

Trend: Below 1 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.
White, non-Latinx hospital admissions decreasing for >28 days.

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

Trend: Decrease 29 days (6/4-7/3)

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.
COVID-19 deaths are decreasing or stable for >28 days

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

Trend
Decay 12 days (6/4-6/16)
Stable 3 days (6/16-6/19)
Decrease 14 days (6/18-6/26)

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.

Proportion of ED visits for influenza-like illnesses are stable or decreasing for >28 days.

Trend
- Stable 13 days (6/6-19)
- Decrease 13 days (6/19-7/2)
- Stable 3 days (7/2-7/5)
ED visits for COVID-like illness are stable or decreasing for >28 days.

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 plateauing or small increases to 4.8%; total testing now decreasing after recent peak.

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

Goal is under 7%
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

Goal is below 1000

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

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.
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

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 25 of 28 days ending on July 3.

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.