

#### Protecting Chicago: Phase IV Re-Opening Metrics Update

**August 15, 2020** 

(Data current through 8/12/2020)

#### Key findings for week ending 8/15



- Delays in test result reporting are likely causing artificial decreases in the most recent segment of the 'recent trend' for COVID-19 confirmed case trend lines even after 5-day censoring
- Citywide case incidence has increased by a factor of 1.7 in the last 47 days, but is currently in stable state. Latinx case growth is still the largest contributor to recent increases.
- Black, non-Latinx case incidence is persistently high and stable, but very slowly decreasing over the past month
- Latinx case incidence is persistently high. This is the only race/ethnicity group that is currently increasing. A prolonged three week growth streak of +3 cases per day appears to have ended.
- Case incidence among 18-29 year olds is persistently high and stable, continued very slow increases over 3
  weeks
- Hospital admissions per case is 2X as high for Black, NLX relative to both Latinx and White, NLX.
- Hospital admissions have increased for the first time since March 2020, driven by increases in Black, NLX hospitalizations.
- % of ILI visits shows recent rapid increases; CLI is decreasing (not sure how useful at the citywide level.
- Percent positivity at 5.0% remains at the threshold for "Caution: Pause and Monitor" of the reopening gating metric.

#### CDPH COVID-19 Phase IV starting June 26 2020

	Stop: May need to delay moving ahead	Caution: Pause and monitor	Go: Cautious progress	Go: Continued progress	Go: Advanced progress
Cases 7-day rolling daily average  Hospitalizations 7-day rolling daily average  Deaths 7-day rolling daily average  COVID Emergency department visits 7-day rolling daily average	Any sustained increase >14 days within the past 28 days	Increase 0-14 days (in most recent 14 -day period)	Stable or decrease 0-13 days (w/o increase in most recent 14-day period)	Stable or decrease 14-28 days	Stable or decrease >28 days  and/or sustained <200 new cases per day (~100 cases per 100,000 persons)
Positivity rate 7-day rolling daily average	>10%	5% - 10%	<5%	<5%	<5%
Hospital system capacity 7-day rolling daily average	>1280 non-ICU beds >480 ICU beds >360 ventilators	>1000 non-ICU beds >400 ICU beds >300 ventilators	<1000 non-ICU beds occupied by COVID patients <400 ICU beds occupied by COVID patients <300 ventilators occupied by COVID patients		/ID patients
Testing capacity 7-day rolling daily average	Unexplained decline in testing <4500 total tests/day	Explained decline in testing <4500 total tests/day	Stable testing >4500 total tests/day		sts/day
Response capacity	N/A	N/A	Initiate case inves 50% of cases	stigation within 24h o 75% of cases	f assignment for 90% of cases



#### **COVID-19 Confirmed Cases**

#### Increase 2 days (7/9-7/11) 19 C/D **COVID-19** case incidence in Chicago is Recent **Stable 8 days (7/11-7/19) Trend** Increase 16 days (7/19-8/4) 4 C/D persistently high and stable, with a recent 16 **Stable 3 days (8/4-8/7)** day slow increase. 14-day HIGH Incidence (301 avg. daily cases\*) COVID-19 cases, daily counts and rolling 7-day average, specimen 14-day STABLE +1.9 cases per day slope 500 **Peak 14-**998 avg. daily cases day 450 5/20/2020 incidence 400 350 300 250 150 100 50

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.

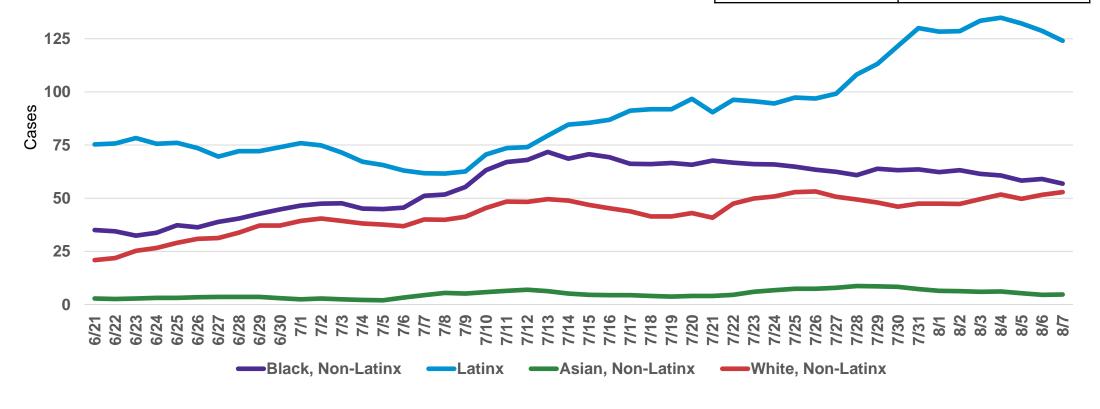


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## COVID-19 case incidence is more than double among Latinx compared to other race/ethnicities.

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

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.

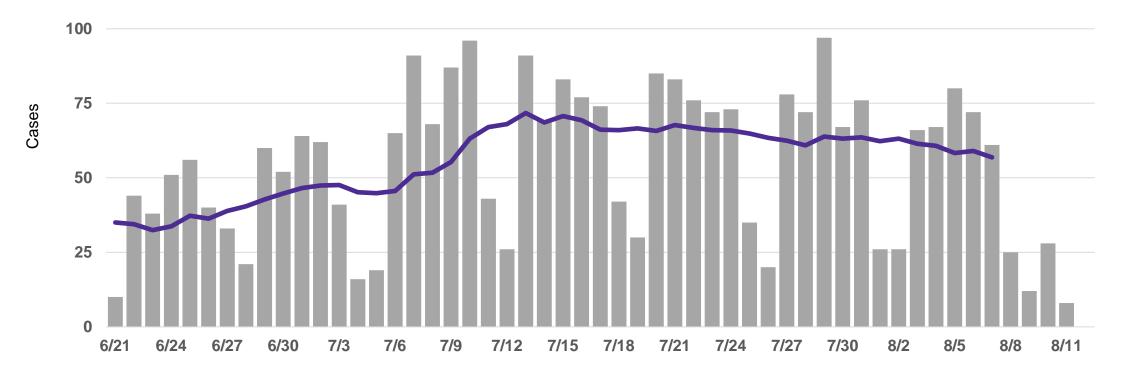
## Black, non-Latinx case incidence is high and stable, with a recent 26 day slow decrease.

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

counts and rolling 7-day average, specimen collection date

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Recent Trend	Increase 3 days (7/9-7/12) 4 C/D Decrease 26 days (7/12-8/7)
14-day	HIGH
incidence	(60 avg. daily cases*)
14-day slope	STABLE -0.6 cases per day
Peak 14-day	204 avg. daily cases
incidence	4/24/2020

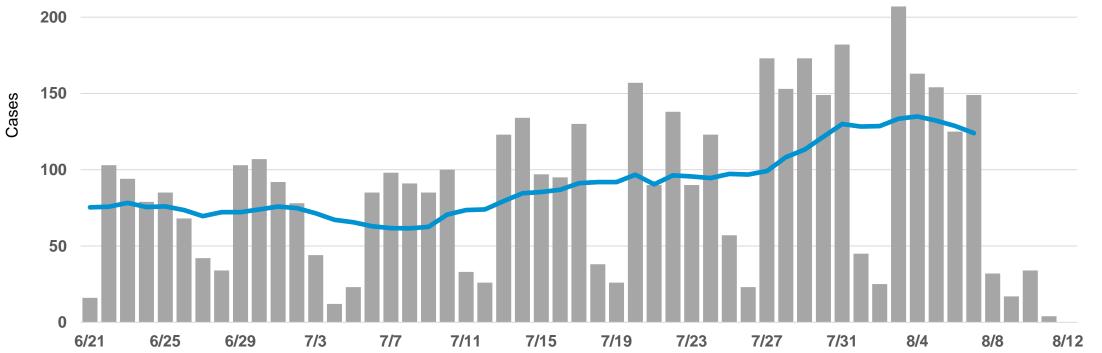


Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates 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); MODERATELY HIGH (51-99); HIGH (100+) and presented as corresponding daily counts color-coded to gating category.

# Latinx case incidence is high and growing. Cases have been stable for most recent 7 days after a slow 22 day increase.

COVID-19 cases among Latinx residents, daily counts and rolling 7-day average, specimen collection date 250

Recent	Increase 22 days (7/9-7/31) 3 C/D
Trend	Stable 7 days (7/31-8/7)
14-day	HIGH
incidence	(127 avg. daily cases*)
14-day	GROWTH
slope	+1.9 cases per day
Peak 14-day	429 avg. daily cases
incidence	5/6/2020



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.

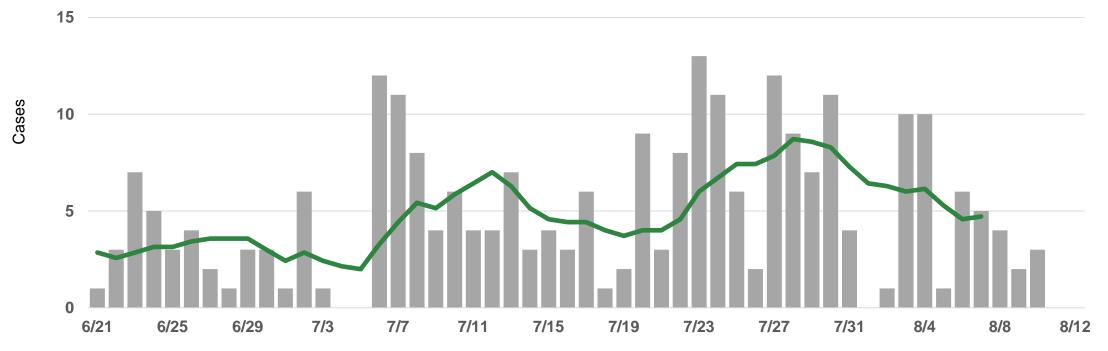


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COVID-19 cases among Asian, non-Latinx residents, daily counts and rolling 7-day average, specimen collection date

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Recent Trend	Increase 3 days (7/9-7/12) 1 C/D Decrease 9 days (7/12-7/21) Increase 8 days (7/21-7/29) 1 C/D Decrease 9 days (7/29-8/7)
14-day	MODERATE
incidence	(6 avg. daily cases*)
14-day slope	STABLE -0.2 cases per day
Peak 14-day	21 avg. daily cases
incidence	4/26/2020



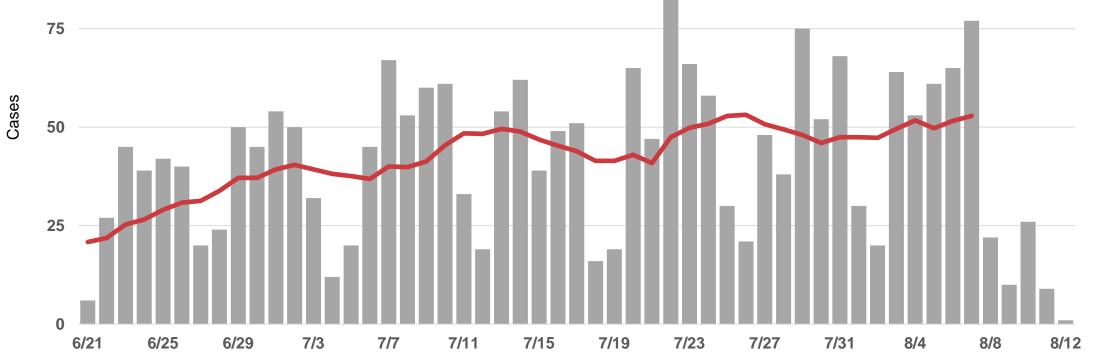
Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates 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); 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 current 8 day increase.

COVID-19 cases among white, non-Latinx residents, daily counts and rolling 7-day average, specimen collection date 100

Recent Trend	Increase 4 days (7/9-7/13) 2 C/D Decrease 6 days (7/13-7/19) Increase 6 days (7/19-7/25) 2 C/D Decrease 5 days (7/25-7/30) Increase 8 days (7/30-8/7) 1 C/D
14-day incidence	MODERATELY HIGH (50 avg. daily cases*)
14-day	STABLE
slope	0.0 cases per day
Peak 14-day	107 avg. daily cases
incidence	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. 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); MODERATELY HIGH (51-99); HIGH (100+) and presented as corresponding daily counts color-coded to gating category.

#### 18-29 year old case incidence is high and stable with recent slow 19 day increase.

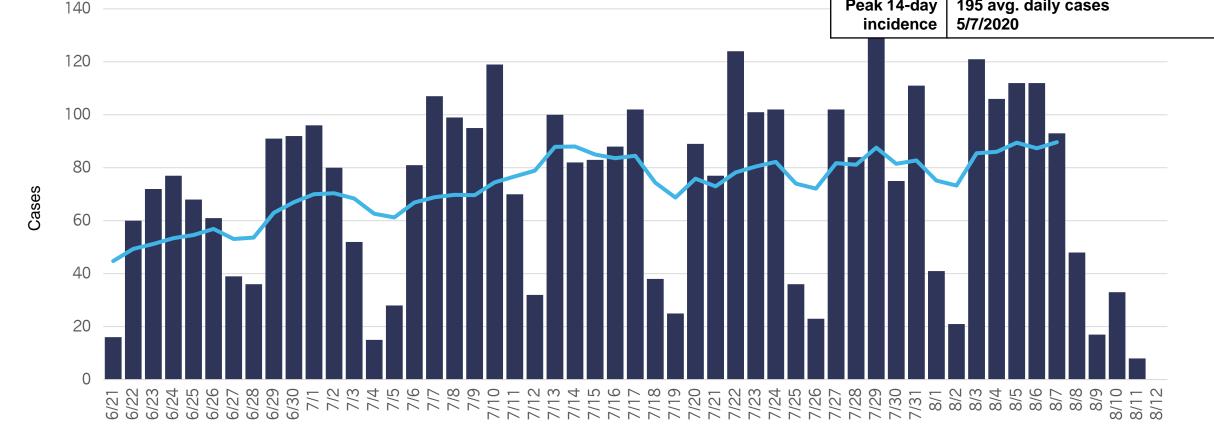
Recent Trend Increase 5 days (7/9-7/14) 4 C/D Decrease 5 days (7/14-7/19) Increase 19 days (7/19-8/7) 1 C/D

14-day Incidence (91 avg. daily cases\*)

STABLE +0.5 cases per day

Peak 14-day 195 avg. daily cases

COVID-19 cases among 18-29 year olds, daily counts and rolling 7-day average, specimen date



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**



Hospital Admissions

#### Daily COVID-19 hospital admissions have been increasing slowly for 7 days.

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

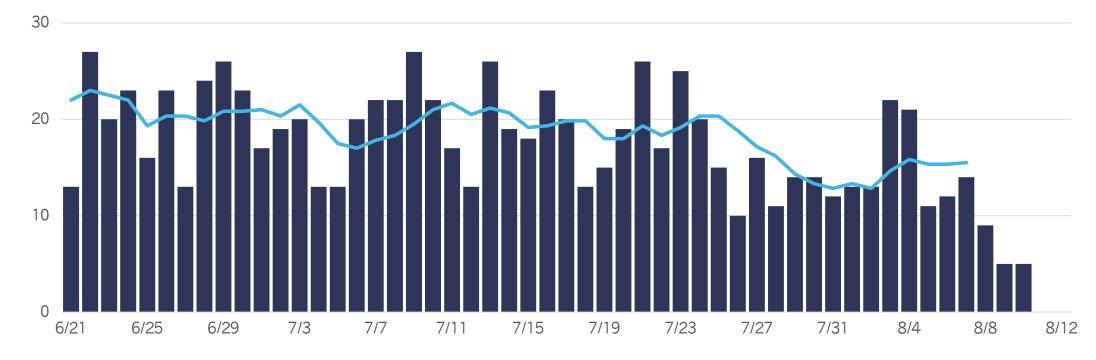
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Decrease 13 days (7/9-7/22)
Stable 3 days (7/22-7/25)
Decrease 6 days (7/25-7/31)
Increase 7 days (7/31-8/7) 0.4 A/D

Peak 7-day rolling average

**Recent Trend** 

173 avg. daily admissions 4/12/2020





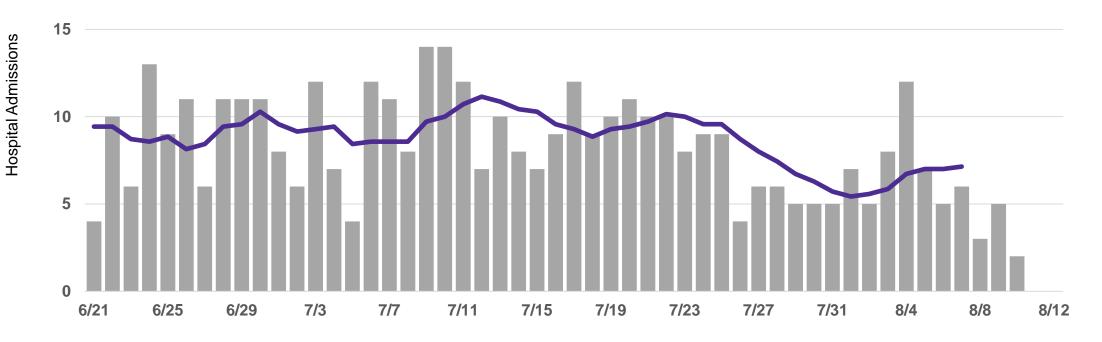
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COVID-19 hospital admissions among Black, non-Latinx residents, daily counts and rolling 7-day average, first known hospital admit date

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Recent Trend Decrease 9 days (7/9-7/18)
Stable 7 days (7/18-7/25)
Decrease 7 days (7/25-8/1)
Increase 6 days (8/1-8/7) 0.3 A/D

Peak 7-day rolling average 4/6/2020

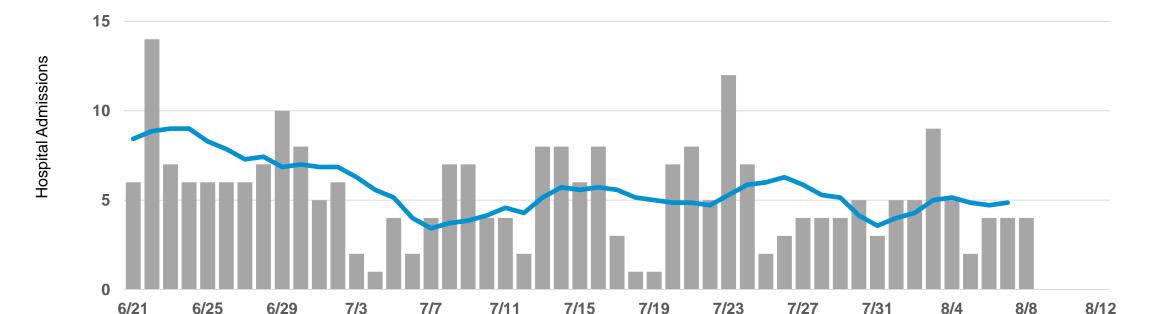


#### Latinx hospital admissions at low incidence for >28 days.



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

Recent Trend	At or below 6 avg. daily admissions for 30 days
Peak 7-day rolling average	57 avg. daily admissions 4/28/2020

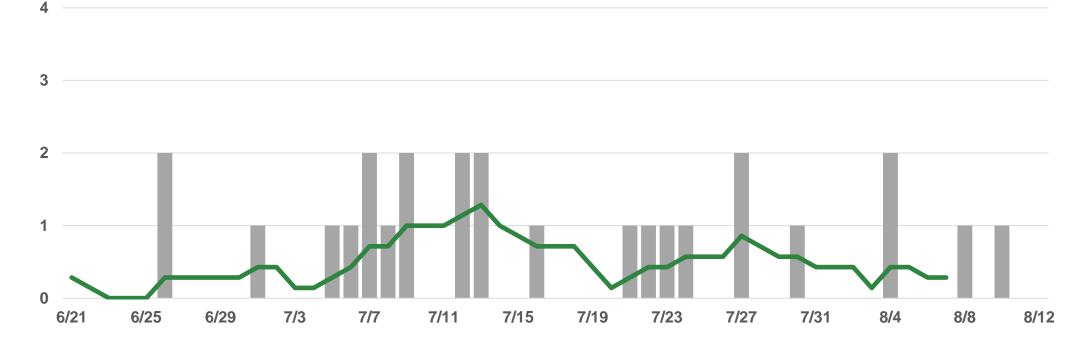


# Hospital Admissions

## 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		At or below 1 avg. daily admissions for 30 days
5	Peak 7-day rolling average	I X ava daliv admissions I



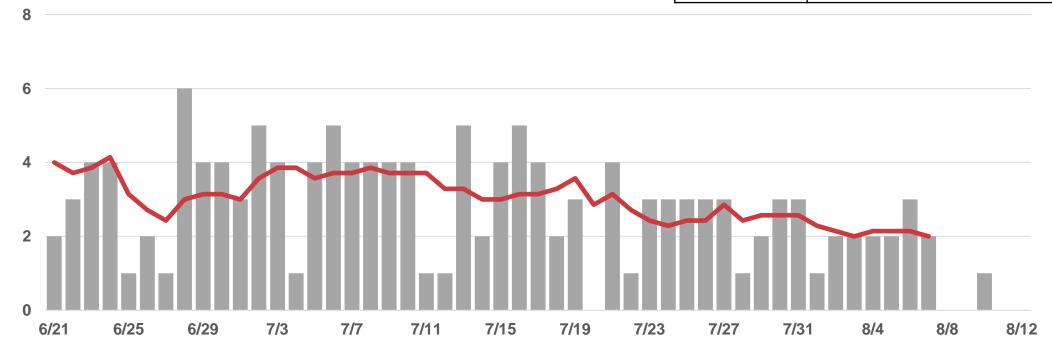


Hospital Admissions

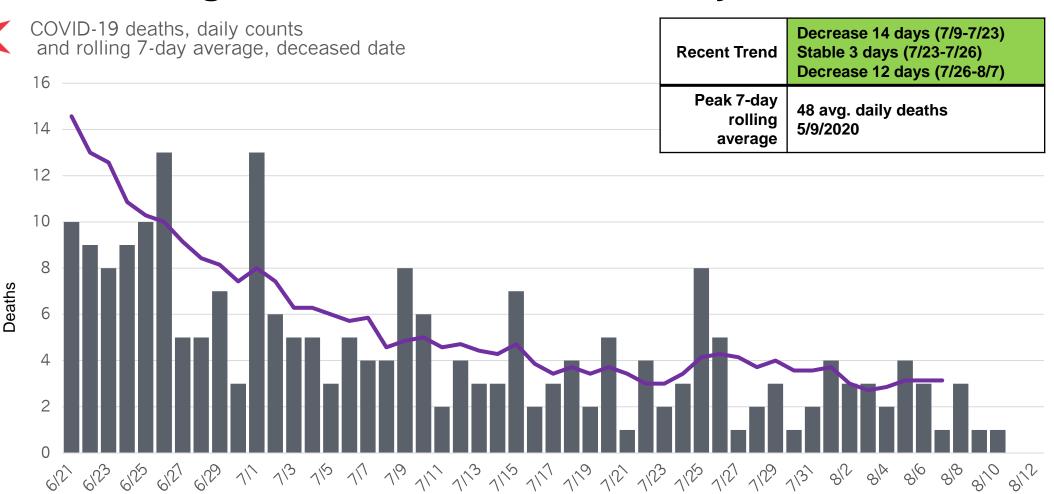
## White, non-Latinx hospital admissions at low incidence for >28 days.

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

	Below 5 avg. daily admissions for 30 days
Peak 7-day rolling average	27 avg. daily admissions 5/6/2020



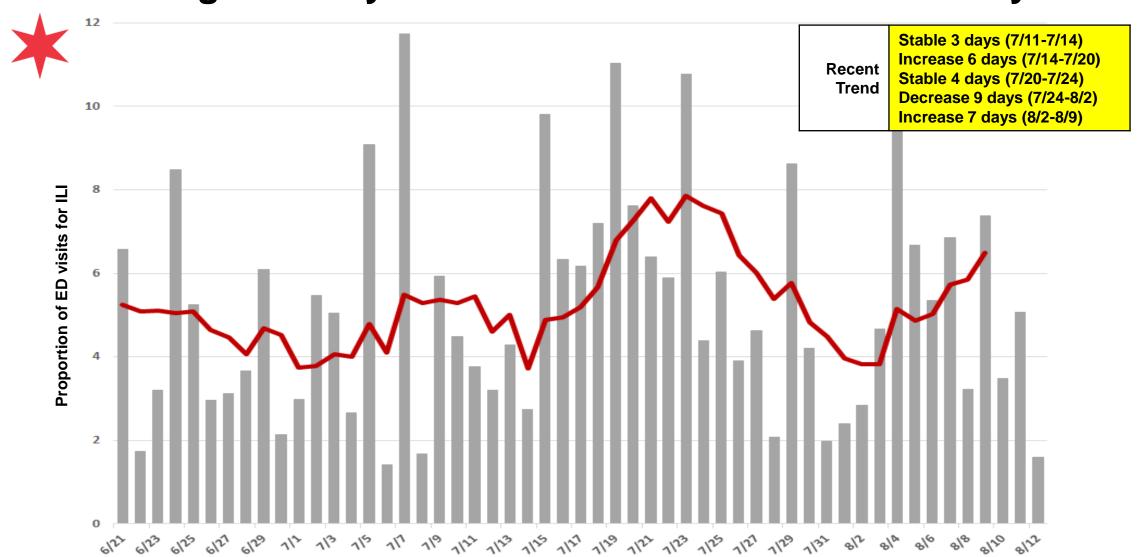
## COVID-19 deaths are decreasing or stable for >28 days with decreasing trend for most recent 12 days.



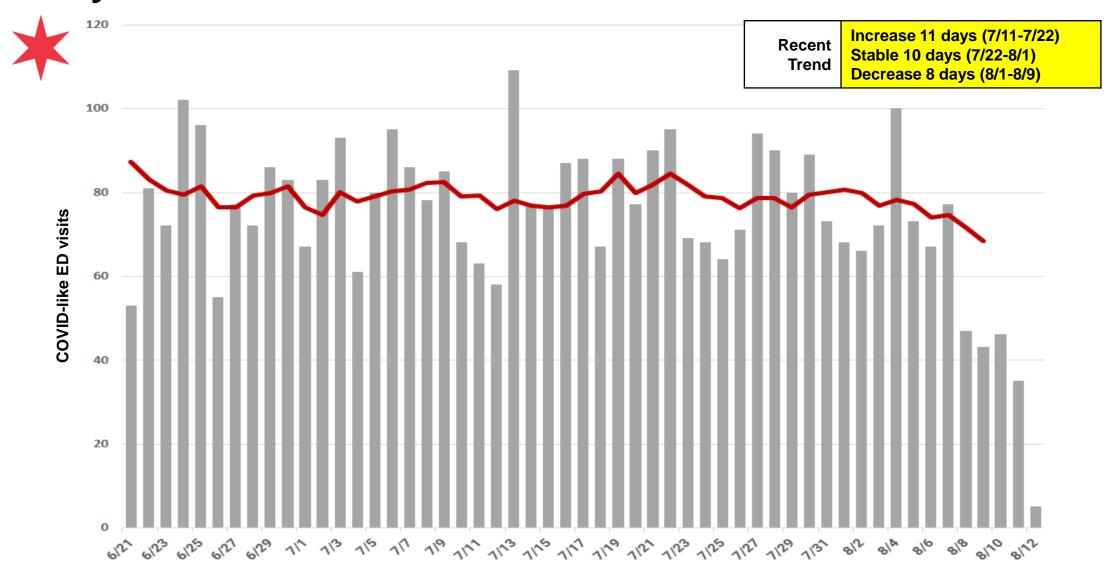


#### **Emergency Department Visits**

## Proportion of ED visits for influenza-like illnesses has been increasing for 7 days after a recent decrease in late-July



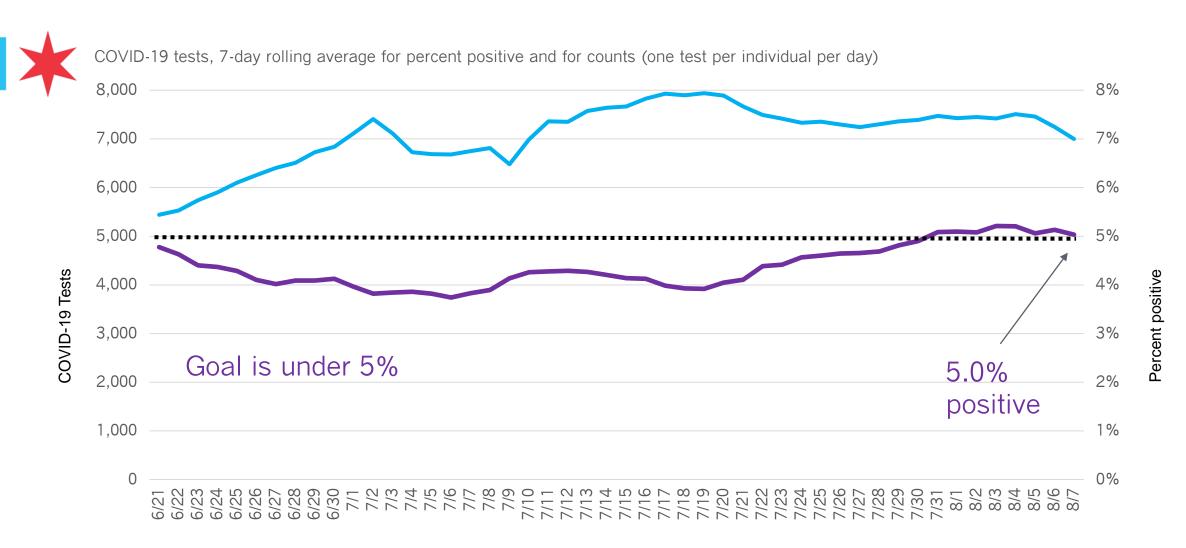
## ED visits for COVID-like illness are stable and decreasing for 18 days after a recent increase





#### **Test Positivity**

#### Test positivity is 5.0% with consistently widespread 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.

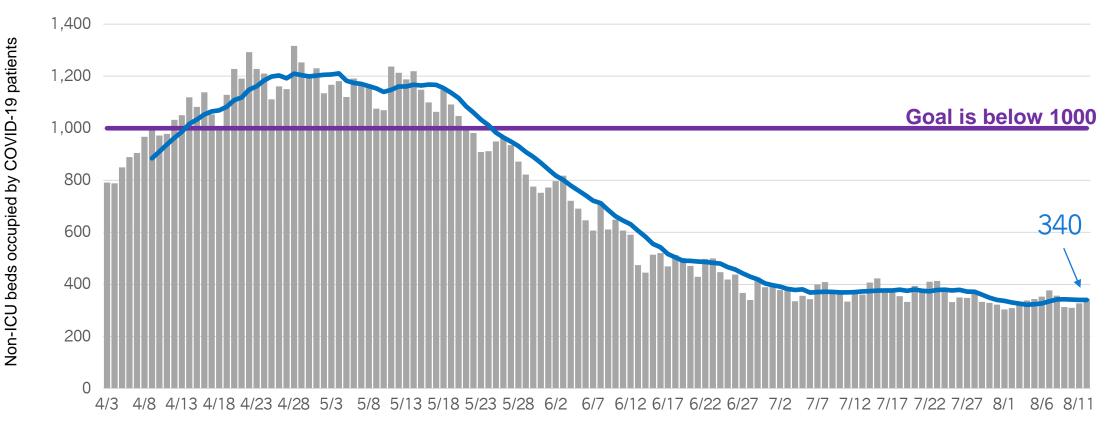


#### **Hospital System Capacity**

## Non-ICU bed occupancy adequate: <1,000 non-ICU beds occupied by patients with COVID-19.



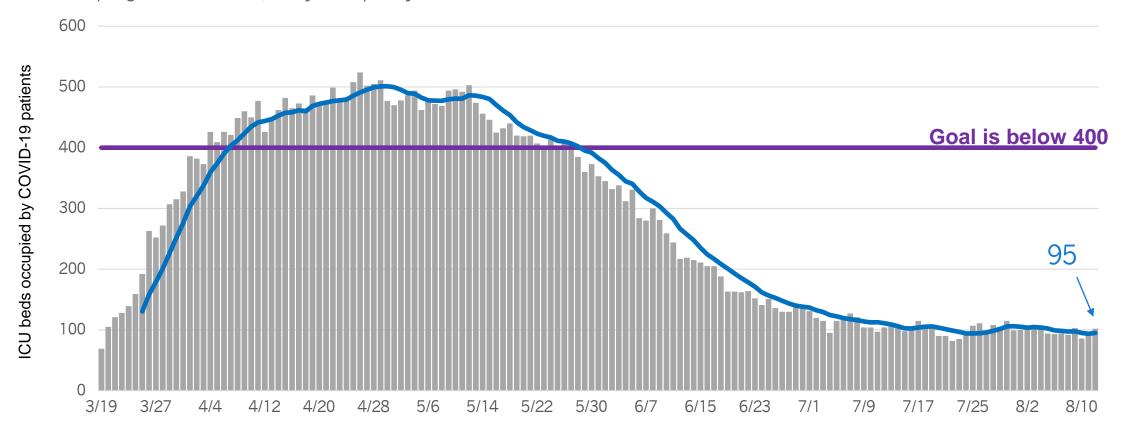
COVID-19 acute/non-ICU beds occupied, daily counts, 7 day average and reopening threshold, daily occupancy census



#### ICU capacity adequate: <400 ICU beds occupied by patients with COVID-19.



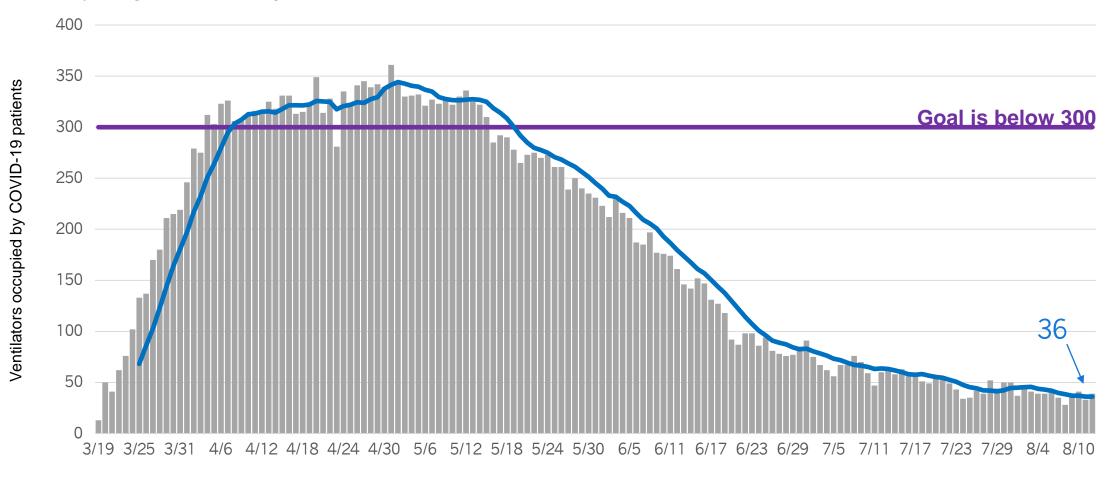
COVID-19 ICU beds occupied, daily counts, 7 day average and progress threshold, daily occupancy census



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



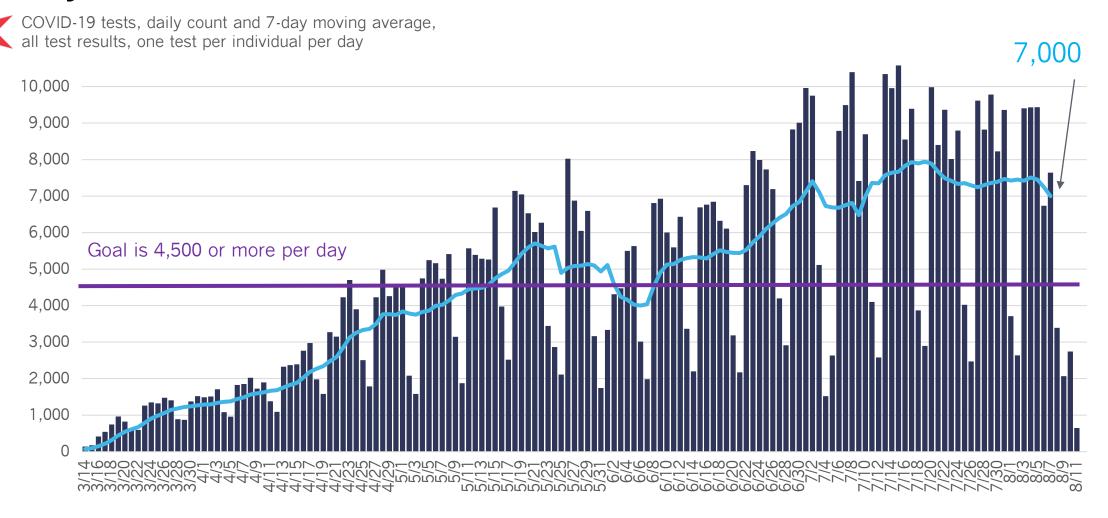
COVID-19 ventilators in use, daily counts, 7 day average and reopening threshold, daily utilization census





#### **Diagnostic Testing Capacity**

## COVID-19 testing above 4,500 tests per day for 53 straight days.



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.