

Protecting Chicago: Phase IV Re-Opening Metrics Update

December 19th, 2020

(Data current through 12/16/2020)

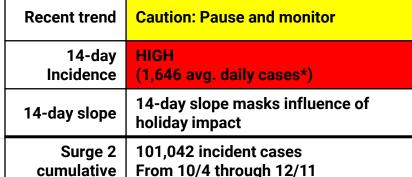
CDPH COVID-19 Phase IV starting June 26 2020

	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 (consecutive) 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%	3% - 5% of all daily tests are confirmed positive	<3% of all daily tests are confirmed positive	<=1% of all daily tests are confirmed positive
Hospital system capacity 7-day rolling daily average	>1200 non-ICU beds >250 ICU beds >300 ventilators	>1000 non-ICU beds >150 ICU beds >150 ventilators	<1000 non-ICU beds occupied by COVID patients <150 ICU beds occupied by COVID patients <150 ventilators occupied by COVID patients	<500 non-ICU beds occupied by COVID patients <75 ICU beds occupied by COVID patients <75 ventilators occupied by COVID patients	<250 non-ICU beds occupied by COVID patients <50 ICU beds occupied by COVID patients <50 ventilators occupied by COVID 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	Stable testing >6750 total tests/day	Stable testing >9,000 total tests/day
Response capacity	N/A	N/A	Investigation within 24h for 50% of CDPH cases interviewed	Investigation within 24h for 75% of CDPH cases interviewed	Investigation within 24h for 90% of CDPH cases interviewed

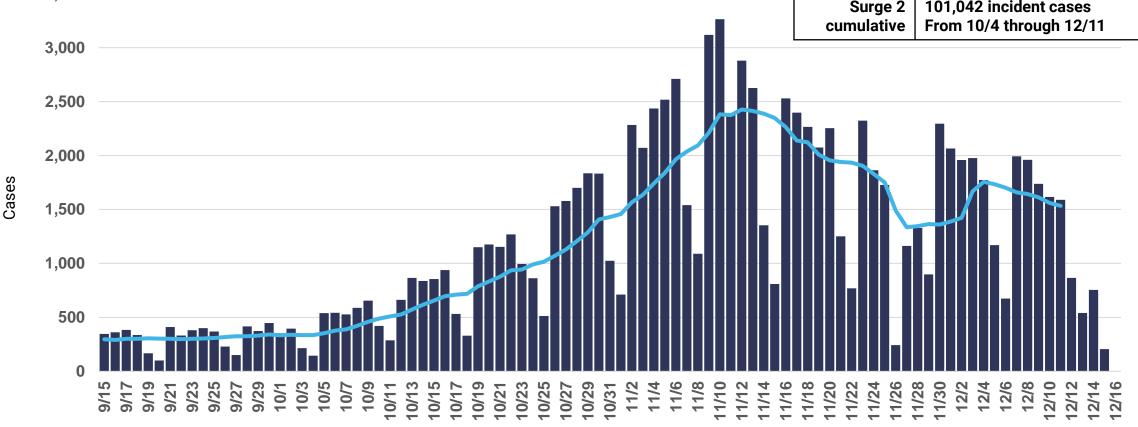


COVID-19 Confirmed Cases

COVID-19 case incidence is slowly declining. Now >4X greater than 8 weeks prior.





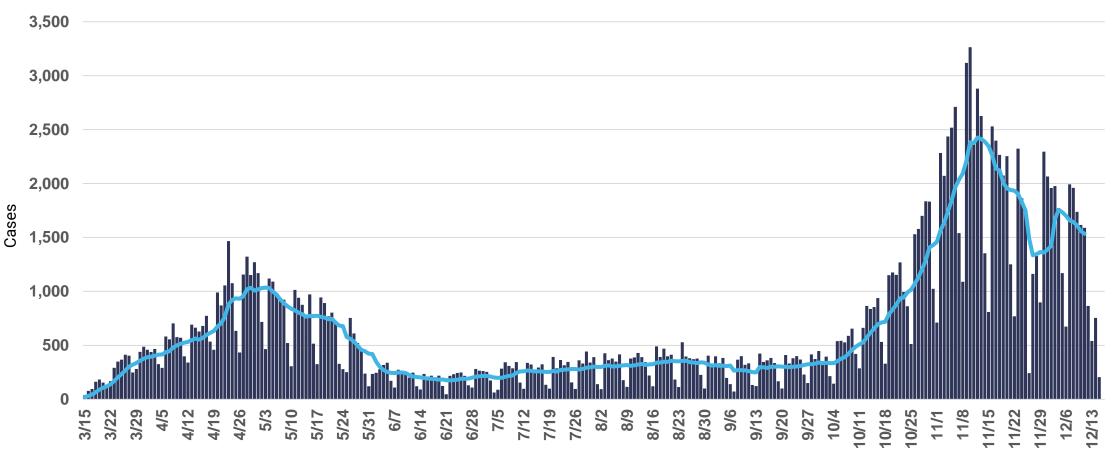


Daily COVID-19 cases with known specimen report date. *14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as. LOW (1-10); MODERATELY LOW (11-25); 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 case incidence in Chicago varies over time. Lower testing volume in Spring make comparisons difficult.

Peak 7-day rolling average	2364 avg. daily cases 11/11/2020
Surge 2 cumulative cases	101,042 incident cases From 10/4 through 12/11

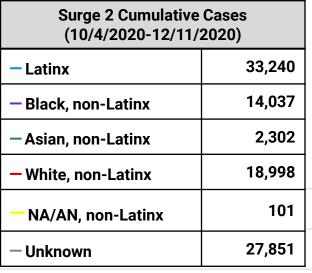
COVID-19 cases, daily counts and rolling 7-day average, specimen date

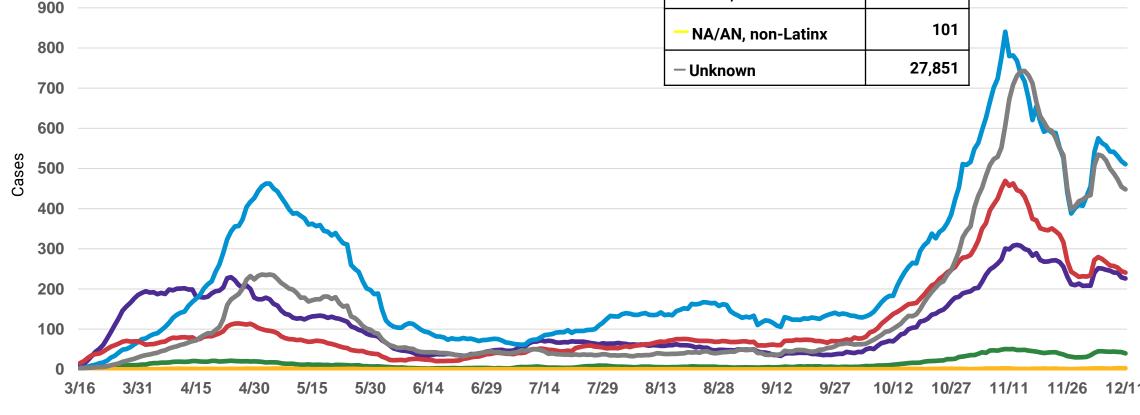


Daily COVID-19 cases with known specimen report date. *14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as. LOW (1-10); MODERATELY LOW (11-25); 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.

Surge 2 cumulative case counts by race/ethnicity (since 10/4/2020)

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



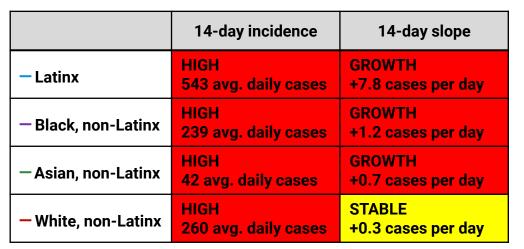


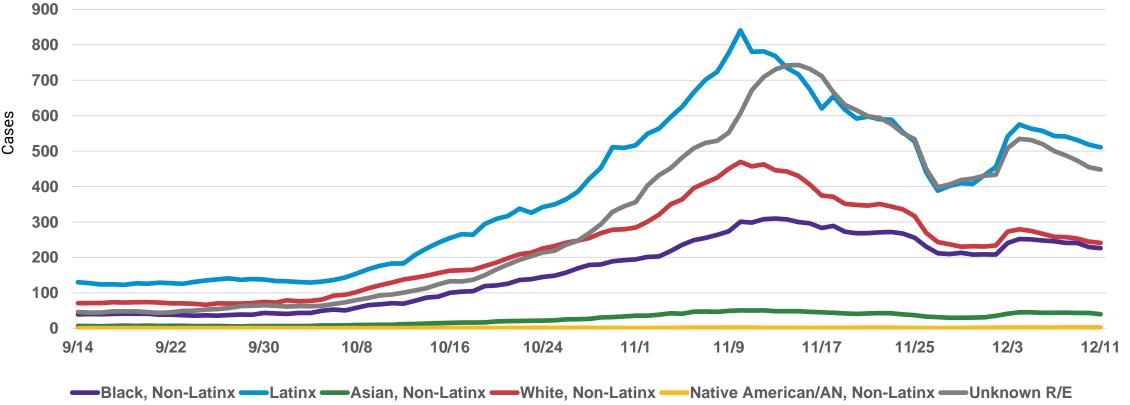
—Black, Non-Latinx —Latinx —Asian, Non-Latinx —White, Non-Latinx —Native American/AN, Non-Latinx —Unknown R/E



COVID-19 case incidence continues to be highest among Latinx Chicagoans.

COVID-19 cases among Chicago residents by race/ethnicity, 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.



COVID-19 Severe Outcomes

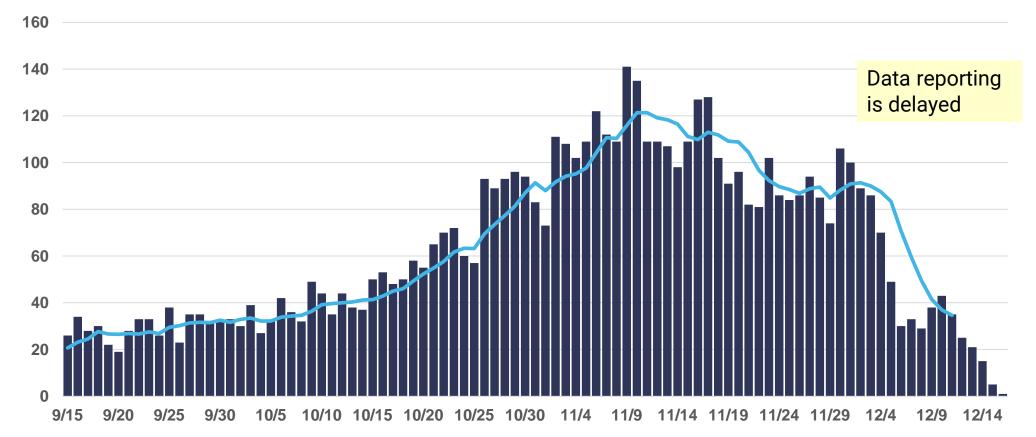


Hospital Admissions

Daily COVID-19 hospital admissions plateaued ~90 per day 11/24 - 12/5

Recent trend	Unknowable due to delays
Peak 7-day rolling average	173 avg. daily admissions 4/12/2020
Cumulative hospital admits by surge	Current surge: 5,020 (10/11-12/11) First surge: 8,262 (3/14-5/14)

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

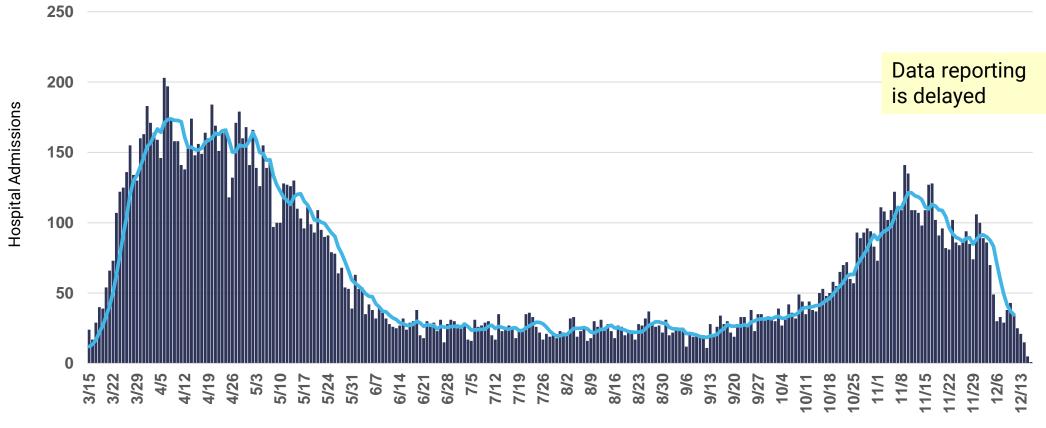




Daily COVID-19 hospital admissions peaked at ~120 per day during 2nd surge (compared to 174 - 1st surge)

Peak 7-day rolling average	173 avg. daily admissions 4/12/2020
Cumulative hospital admits by surge	Current surge: 5,020 (10/11-12/11) First surge: 8,262 (3/14-5/14)

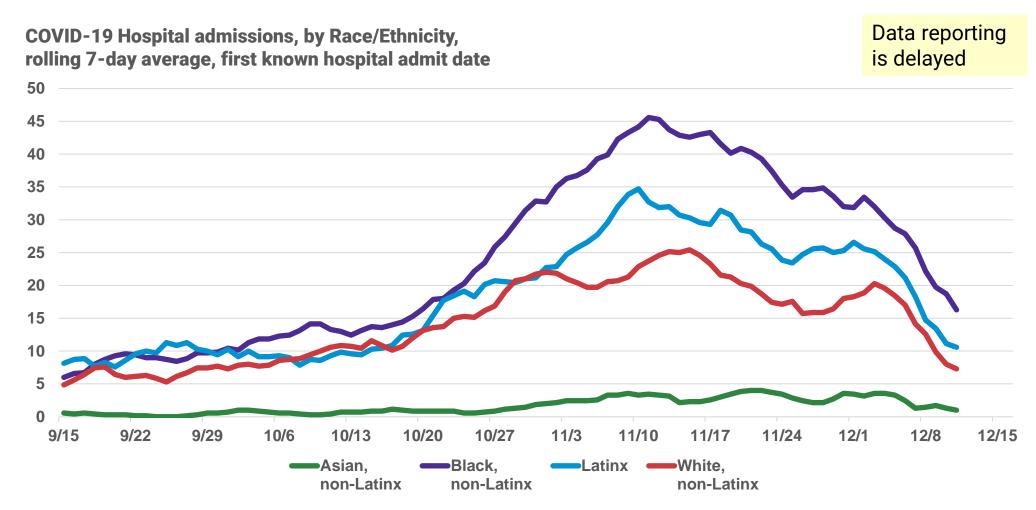
COVID-19 Hospital admissions, daily counts and rolling 7-day average, first known hospital admit date



Daily COVID-19 hospital admissions are highest for Black, non-Latinx in the second surge.



Hospital Admissions



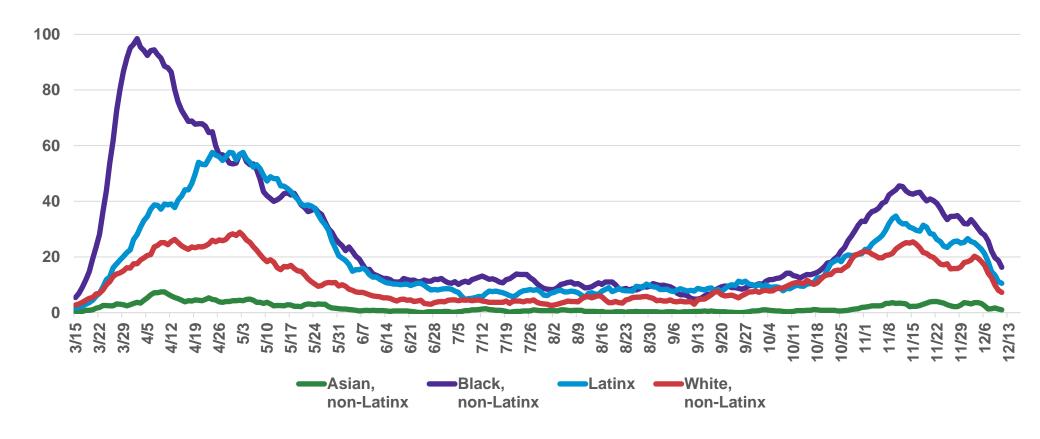
Daily COVID-19 hospital admissions are highest for Black, non-Latinx but less than half of 1st surge peak.



Hospital Admissions

COVID-19 Hospital admissions, by Race/Ethnicity, rolling 7-day average, first known hospital admit date

Data reporting is delayed



COVID-19 deaths are very high. Second surge likely to cause

more than 1,100 deaths by 12/31.

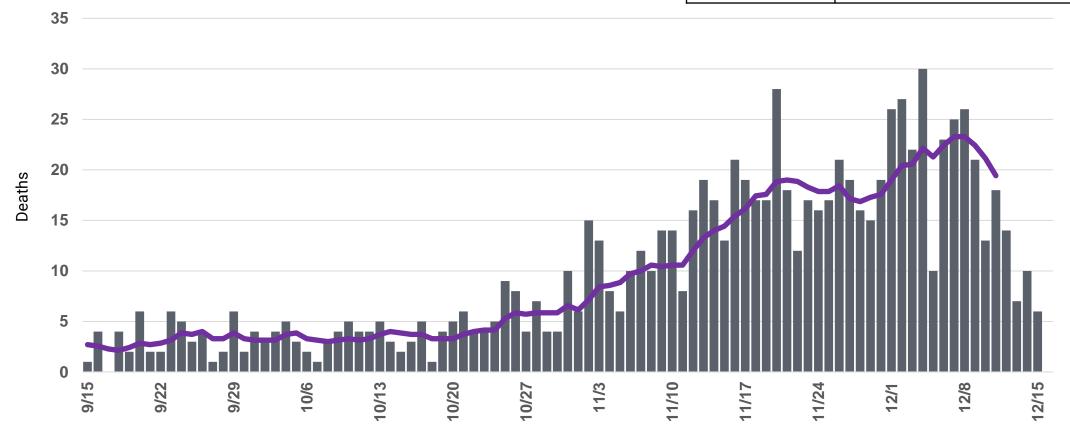


COVID-19 deaths, daily counts and rolling 7-day average, deceased date

Cumulative deaths by surge

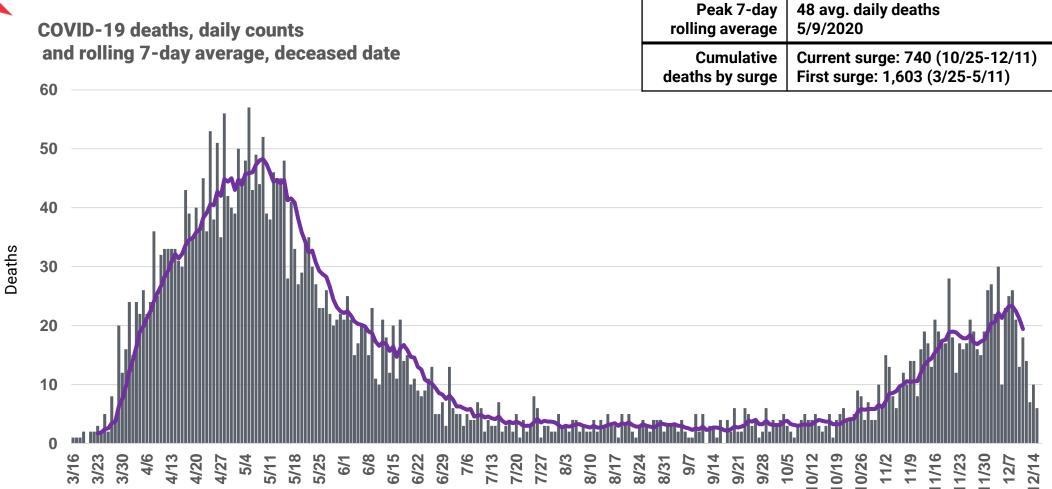
Caution: Pause and monitor

Current surge: 740 (10/25-12/11)
First surge: 1,603 (3/25-5/11)



COVID-19 deaths may have peaked; are on pace to equal 3/4 of the deaths from first surge.



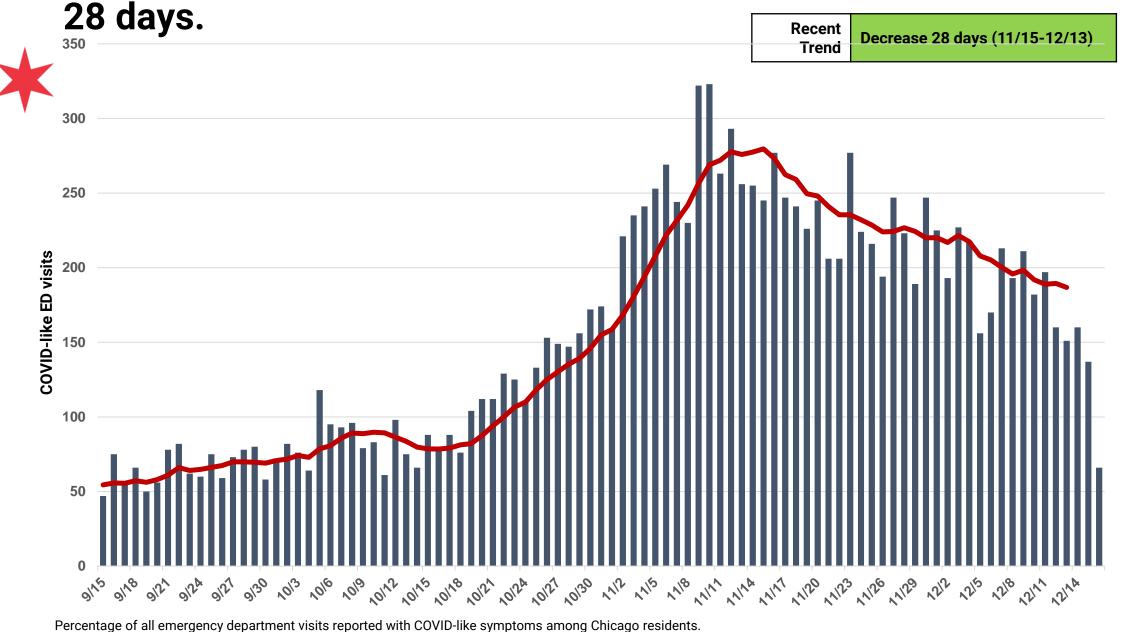


Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. Daily counts for most recent dates displayed are likely incomplete.



Emergency Department Visits

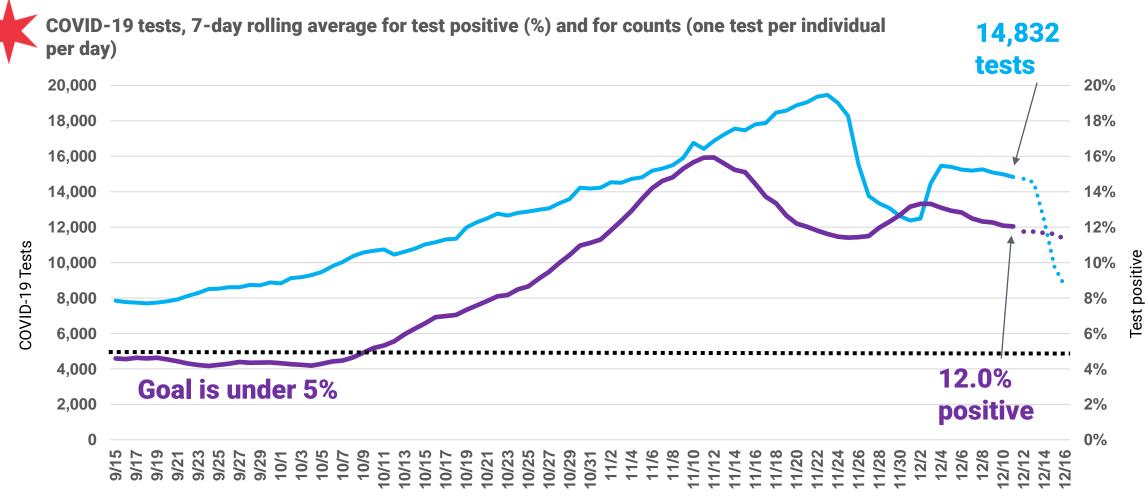
ED visits for COVID-like illness have been stable or decreasing for





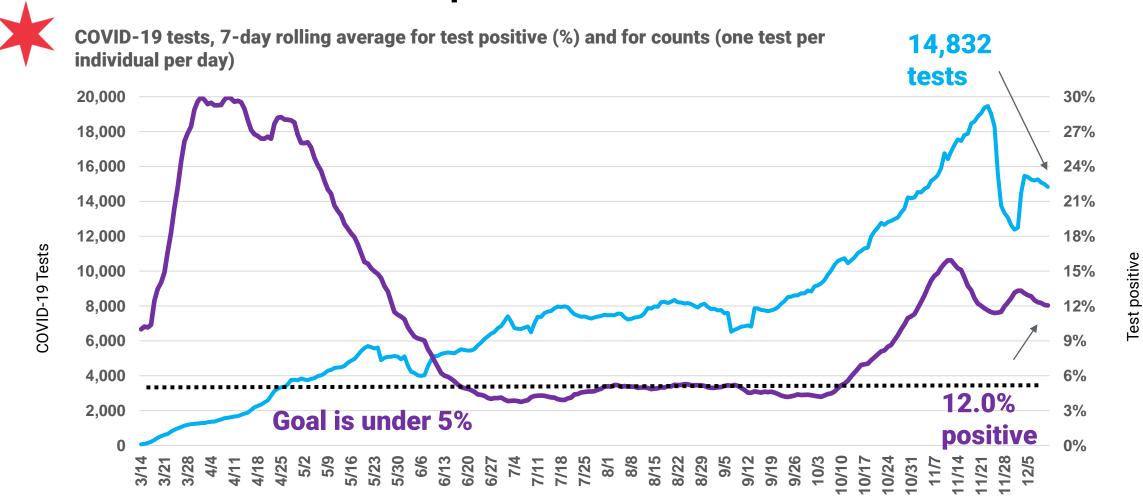
COVID Testing and Test Positivity

Test positivity is slowly descending to the very high level of 12.0% with steady and high levels of 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.

Test positivity and testing count have varied greatly over the entire duration of the epidemic.



Test positivity is the number of positive tests divided by all tests performed (Source: INEDSS).



Hospital System Capacity

Non-ICU bed occupancy from COVID-19 in Surge 2 reached 91% of Surge 1 peak occupancy and is now declining.



COVID-19 acute/non-ICU beds occupied, daily counts, 7 day average and reopening threshold, daily occupancy census (04/03/2020-12/16/2020)

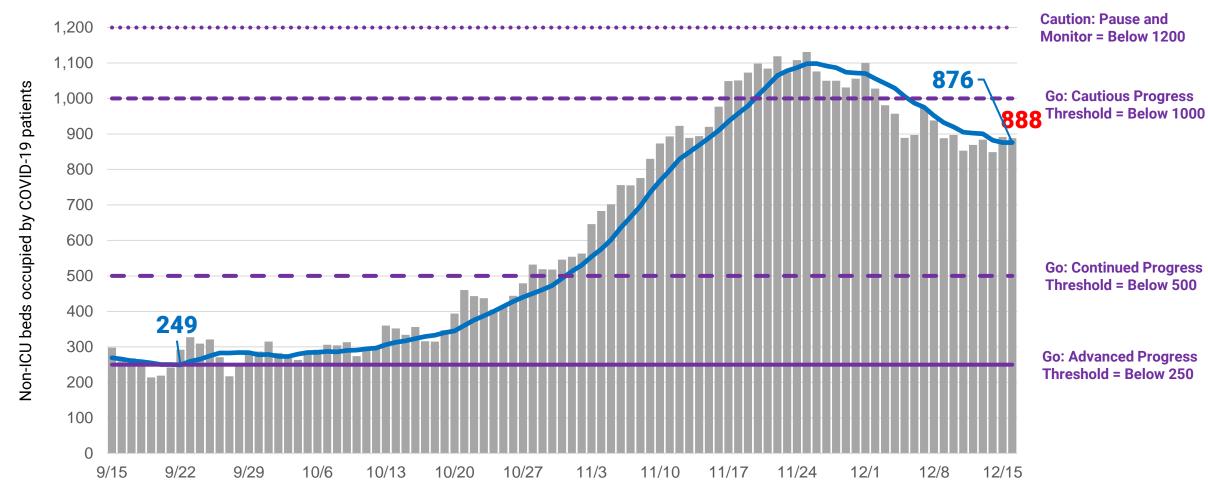


Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning April 3 (acute non-ICU occupancy). Acute non-ICU bed counts include burn, emergency department, med/surg, other, pediatrics and psychiatry beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes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

Non-ICU bed occupancy from COVID-19 remains high but appears to have peaked and is now slowly declining.



COVID-19 acute non-ICU beds occupied, daily counts, 7 day average and reopening threshold, daily occupancy census (9/15/2020-12/16/2020)

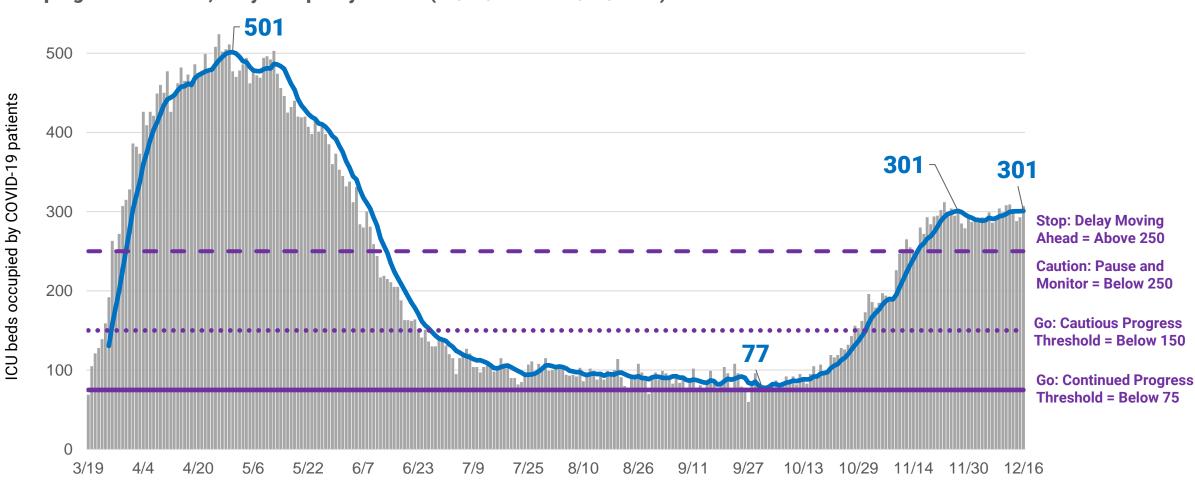


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ICU occupancy from COVID-19 in Surge 2 reached 60% of Surge 1 peak occupancy and has plateaued.



COVID-19 ICU beds occupied, daily counts, 7 day average and progress threshold, daily occupancy census (03/13/2020 - 12/16/2020)

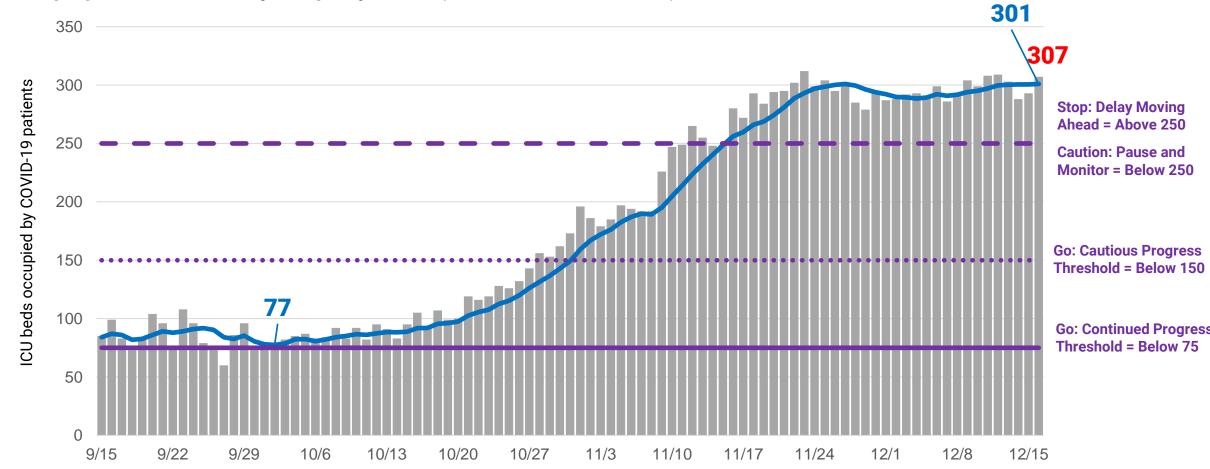


Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, the definition of ICU status changed as requested by HHS.

ICU occupancy from COVID-19 remains high and has plateaued.



COVID-19 ICU beds occupied, daily counts, 7 day average and progress threshold, daily occupancy census (09/15/2020 - 12/16/2020)

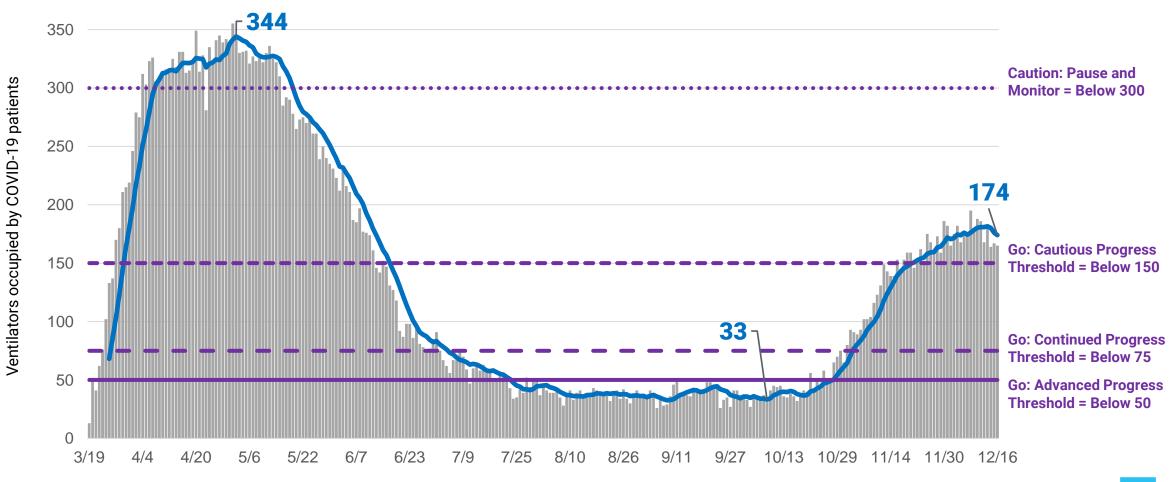


Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, the definition of ICU status changed as requested by HHS.

Ventilator utilization from COVID-19 may be reaching its Surge 2 peak (51% of Surge 1 peak).



COVID-19 ventilators in use, daily counts, 7 day average and reopening threshold, daily utilization census (3/19/2020-12/16/2020)

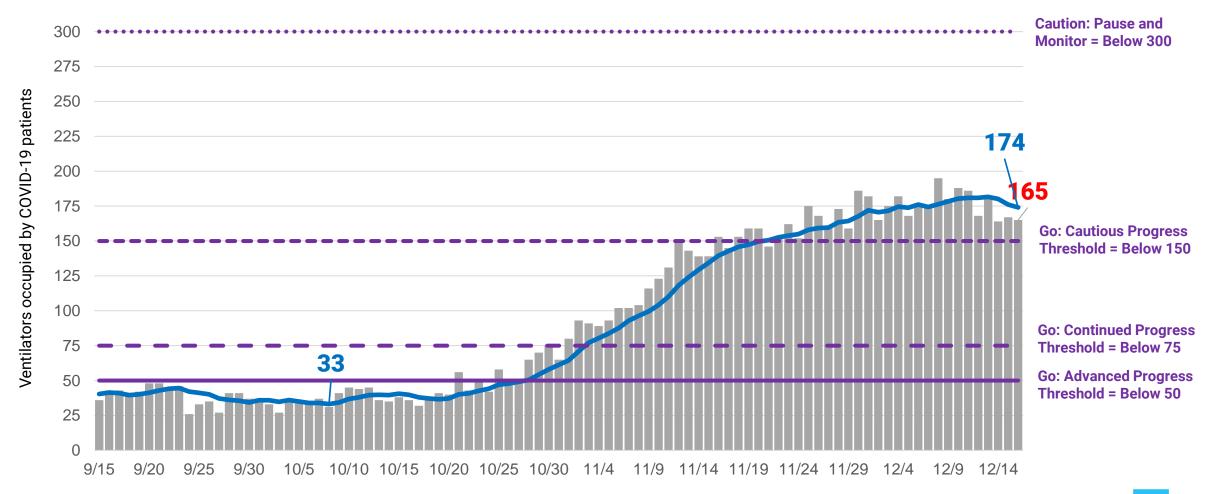


Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, ventilator counts include all full-functioning mechanical ventilators, BiPAP, anesthesia machines and portable/transport ventilators.

Ventilator utilization from COVID-19 may have reached its Surge 2 peak and is now steady.



COVID-19 ventilators in use, daily counts, 7 day average and reopening threshold, daily utilization census (9/15/2020-12/16/2020)



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.