



# Protecting Chicago: Phase IV Re-Opening Metrics Update

**January 23rd, 2021**

**(Data current through 1/20/2021)**

# 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
<b>Cases</b> 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)
<b>Hospitalizations</b> 7-day rolling daily average					
<b>Deaths</b> 7-day rolling daily average					
<b>COVID Emergency department visits</b> 7-day rolling daily average					
<b>Positivity rate</b> 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
<b>Hospital system capacity</b> 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
<b>Testing capacity</b> 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
<b>Response capacity</b>	N/A	N/A	Interview CDPH cases within 24h for 50% of cases	Interview CDPH cases within 24h for 75% of cases	Interview CDPH cases within 24h for 90% of cases

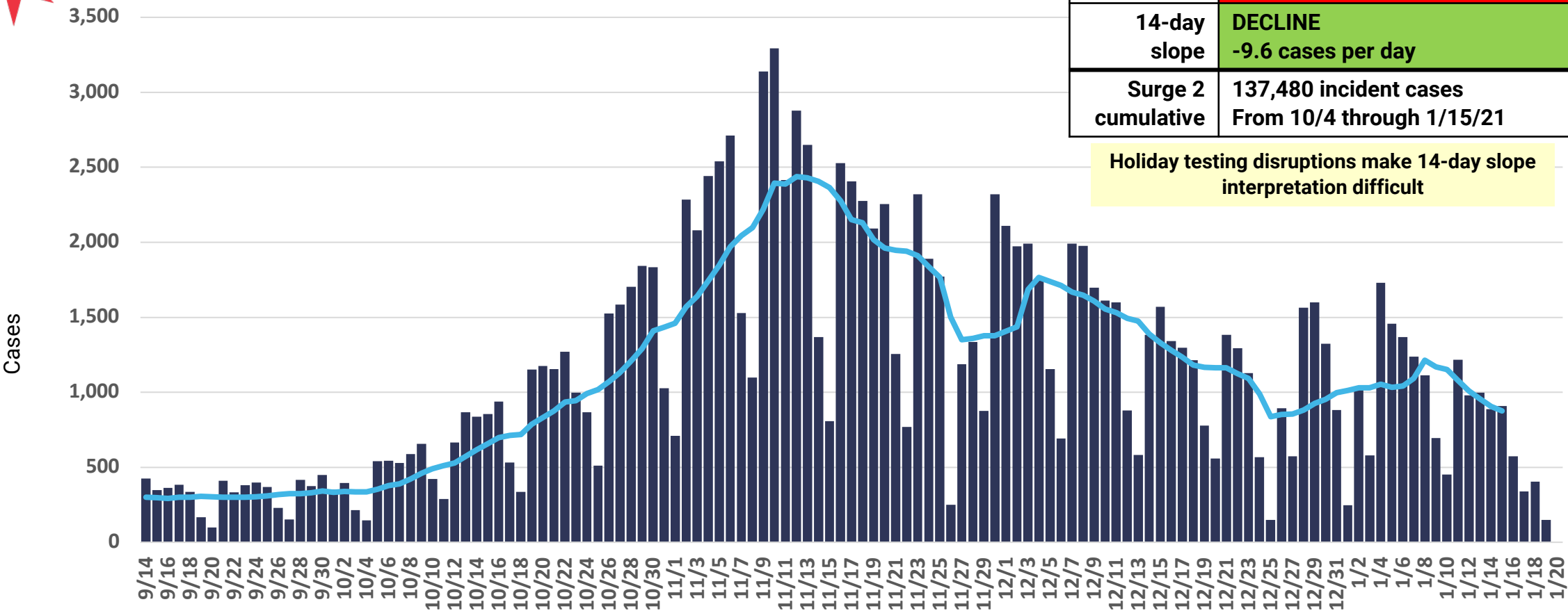


# COVID-19 Confirmed Cases

# COVID-19 case incidence is 2.5X greater than late September and declining for last 7 days.



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



Recent trend	Decrease 7 days (1/8-1/15) Increase prior to 1/8
14-day Incidence	HIGH (1,046 avg. daily cases*)
14-day slope	DECLINE -9.6 cases per day
Surge 2 cumulative	137,480 incident cases From 10/4 through 1/15/21

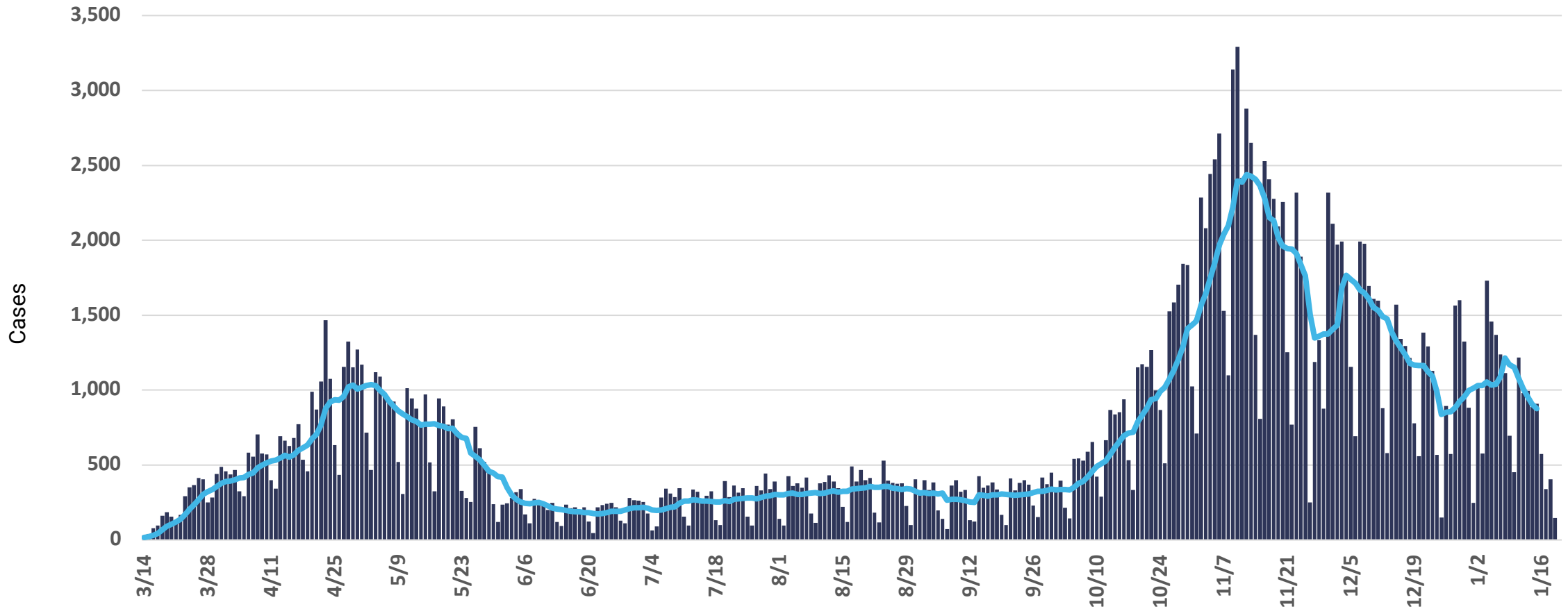
Holiday testing disruptions make 14-day slope interpretation difficult

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+) 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.



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

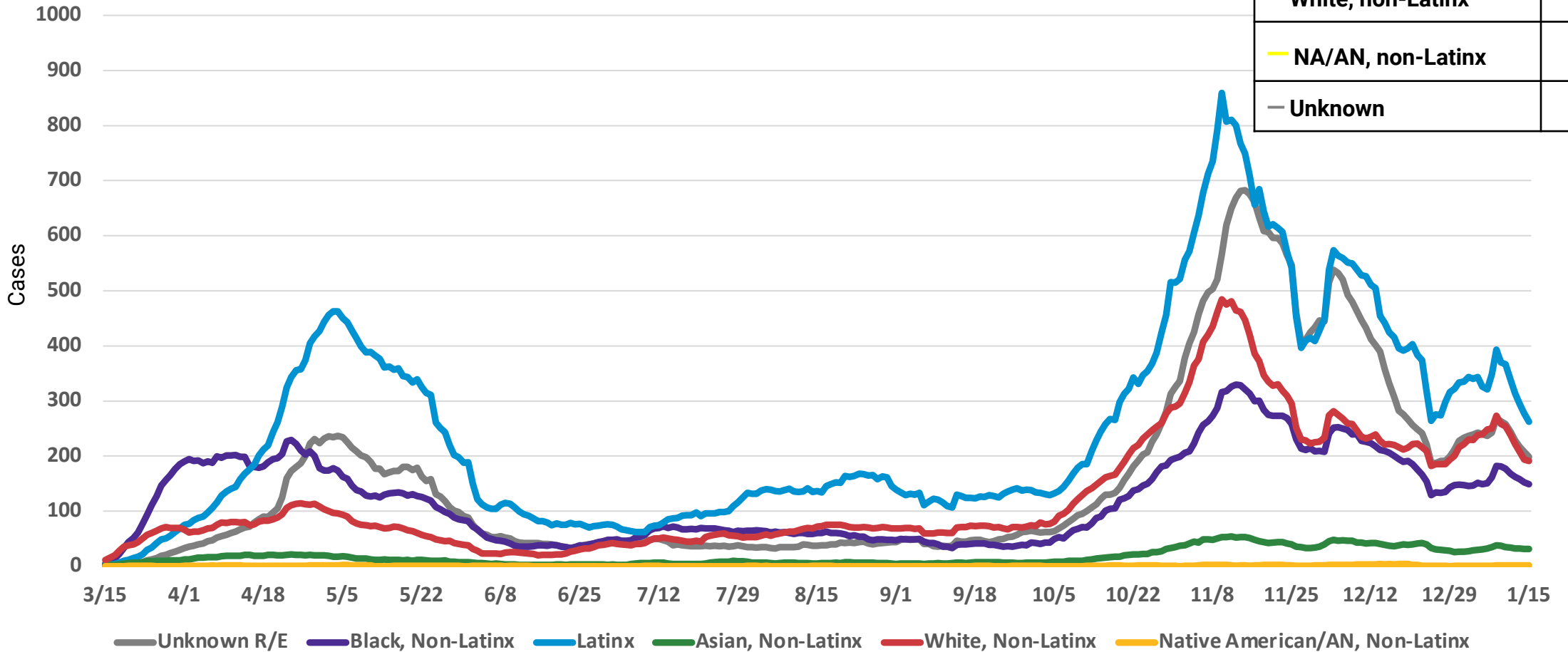


Daily COVID-19 cases with known specimen report date. \*14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as. LOW (1-10); MODERATELY LOW (11-25); MODERATE (26-50); 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.

# 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

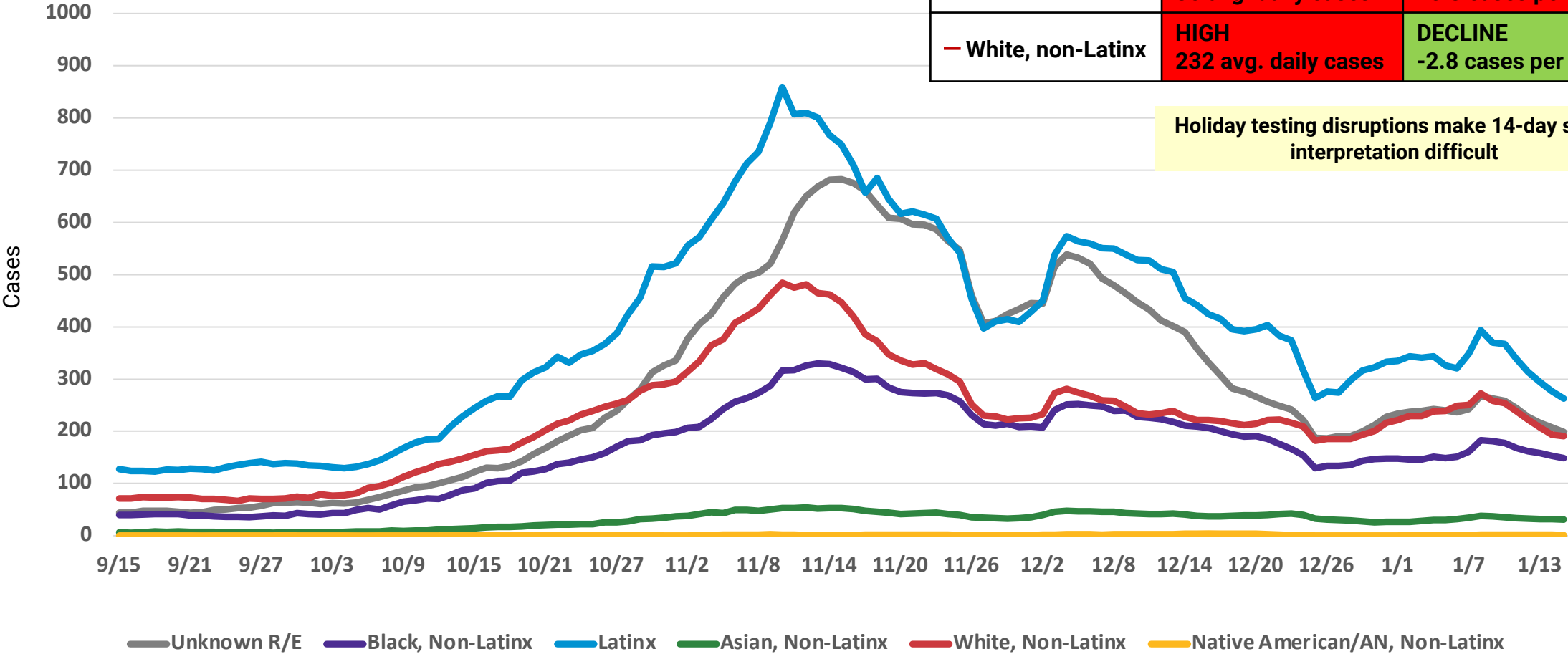


Surge 2 Cumulative Cases (10/4/2020-01/15/2021)	
Latinx	45,528
Black, non-Latinx	19,948
Asian, non-Latinx	3,586
White, non-Latinx	26,671
NA/AN, non-Latinx	161
Unknown	35,129

# COVID-19 case incidence is 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

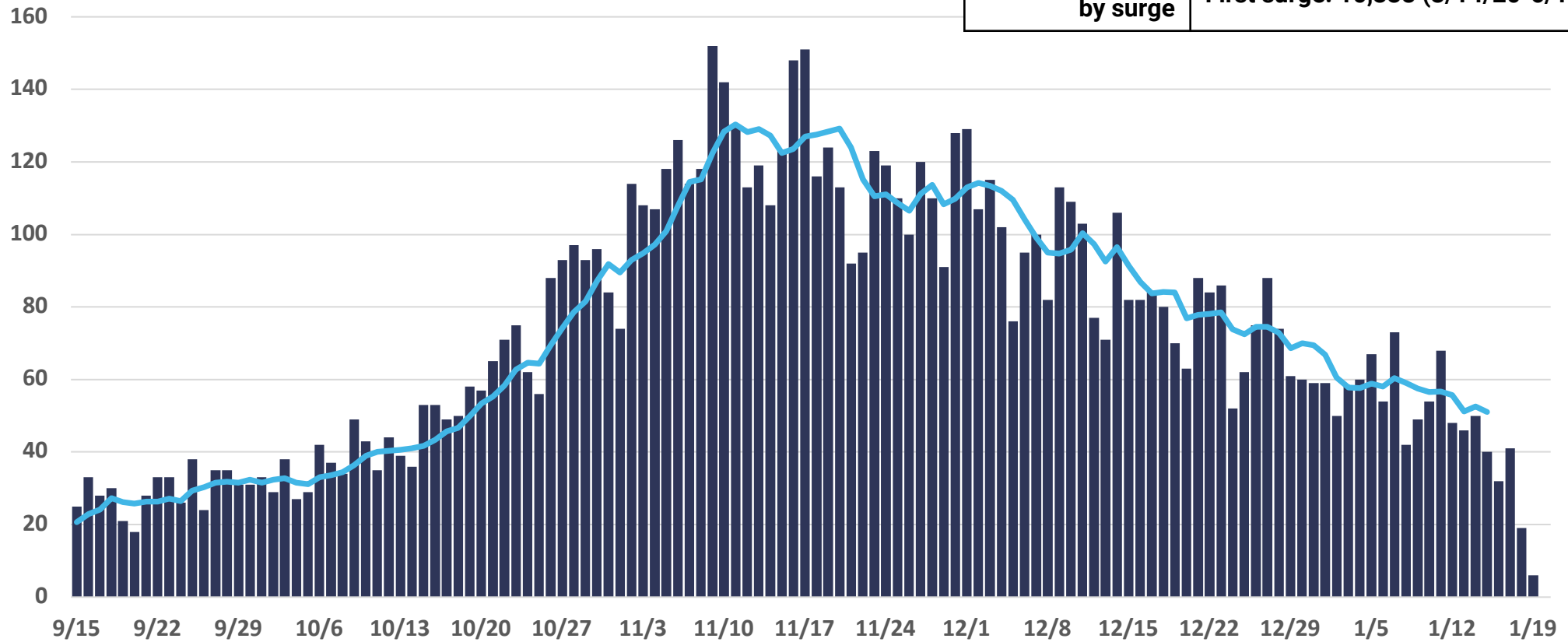


# Daily COVID-19 hospital admissions are declining in recent weeks.



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

Hospital Admissions



Recent trend	Stable or declining 26 days (12/20/20-1/15/21) <i>may be influenced by holiday patterns</i>
Peak 7-day rolling average	173 avg. daily admissions 4/12/2020
Cumulative hospital admits by surge	Current surge: 8,313 (10/10/20-1/15/21) First surge: 10,338 (3/14/20-6/18/20)

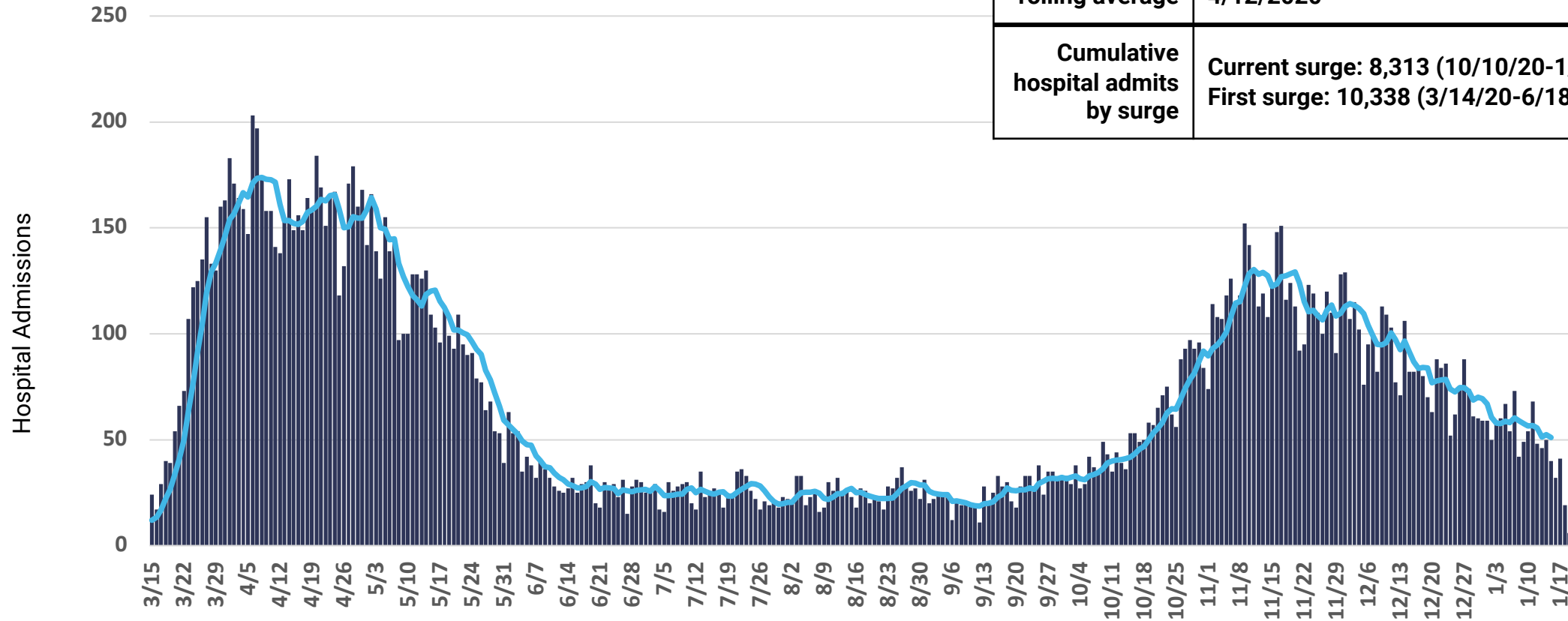
Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to 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.

# Daily COVID-19 hospital admissions are on pace to surpass 80% of first (Spring) surge.



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

<b>Peak 7-day rolling average</b>	<b>173 avg. daily admissions 4/12/2020</b>
<b>Cumulative hospital admits by surge</b>	<b>Current surge: 8,313 (10/10/20-1/15/21) First surge: 10,338 (3/14/20-6/18/20)</b>

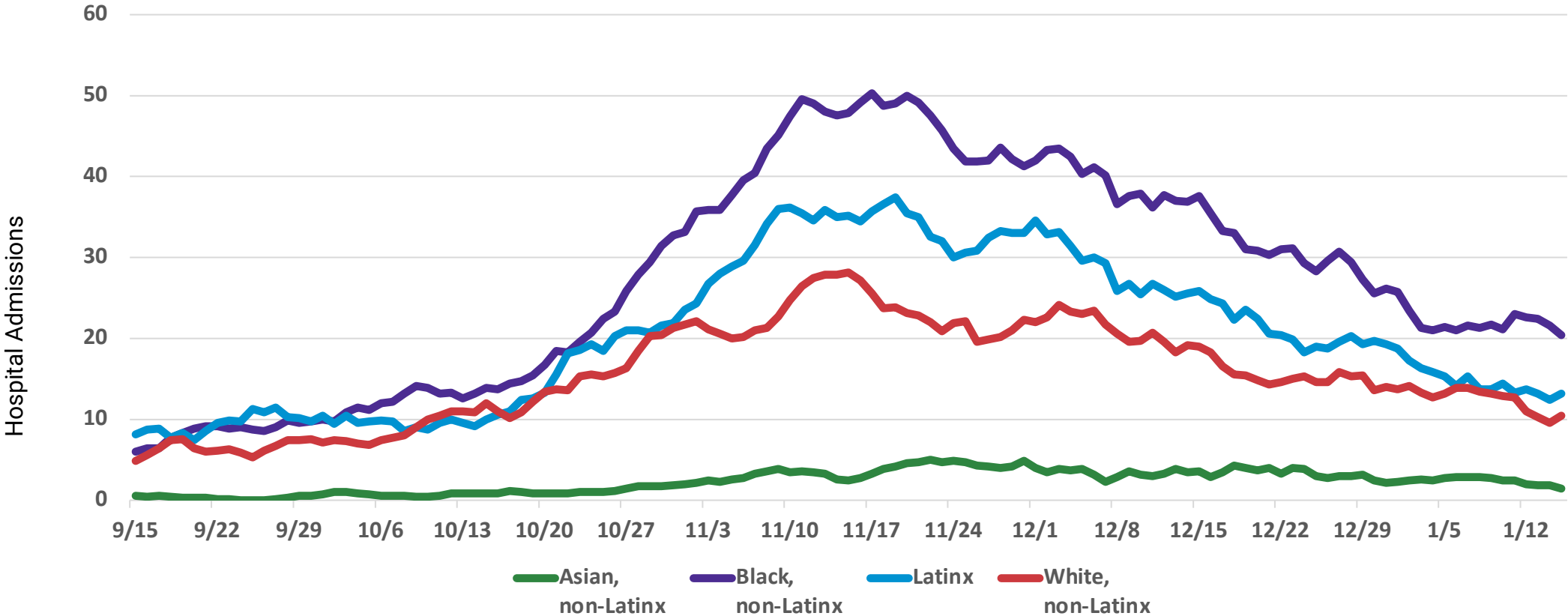


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# Daily COVID-19 hospital admissions are highest for Black, non-Latinx and flattening.



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

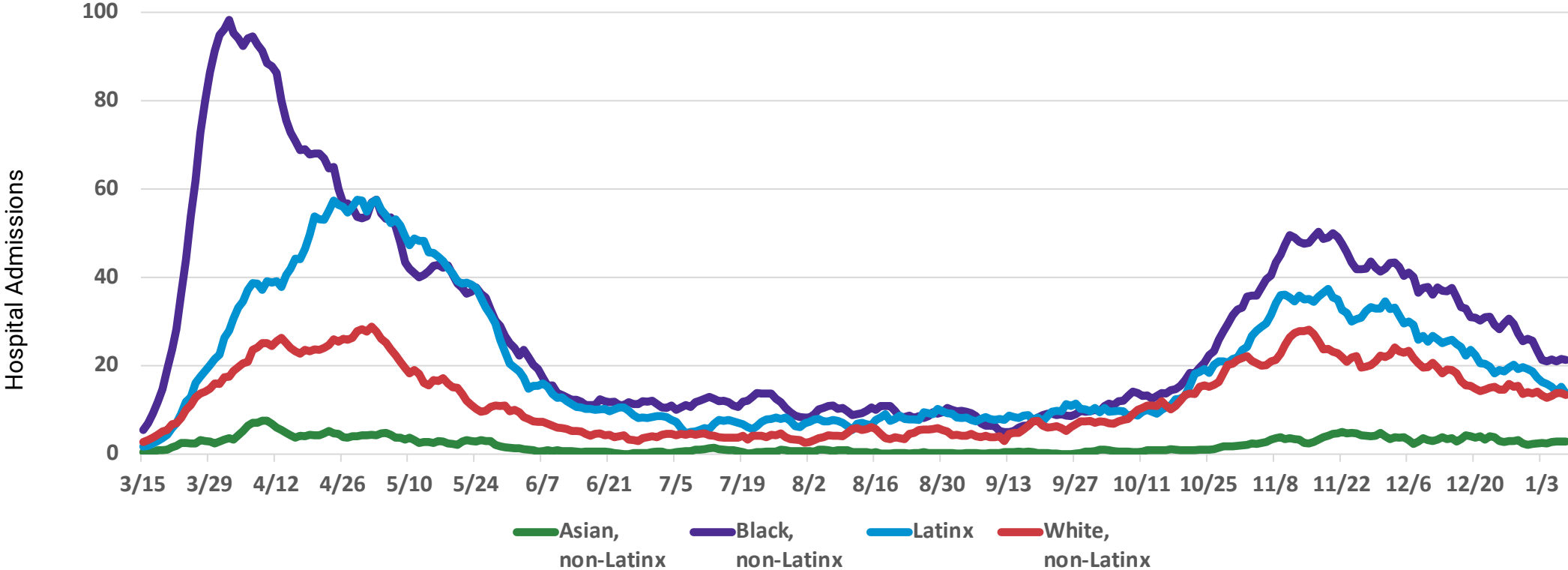


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# Daily COVID-19 hospital admissions are highest for Black, non-Latinx in the second surge.



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

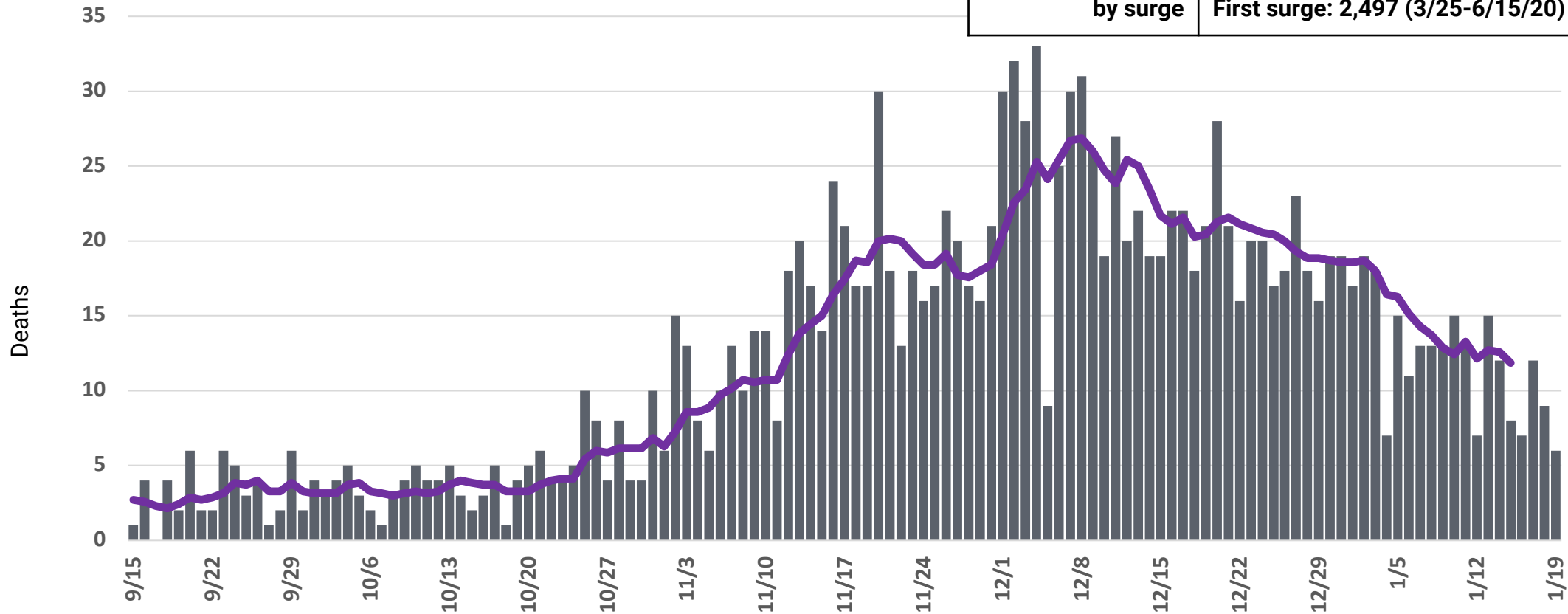


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# COVID-19 deaths are very high. 1,405 deaths in second surge.



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



Recent trend	Decreasing 19 days (12/22/20-1/10/21) Stable 5 days (1/10/21-1/15/21)
Cumulative deaths by surge	Current surge: 1,405 (10/25-1/15/21) First surge: 2,497 (3/25-6/15/20)

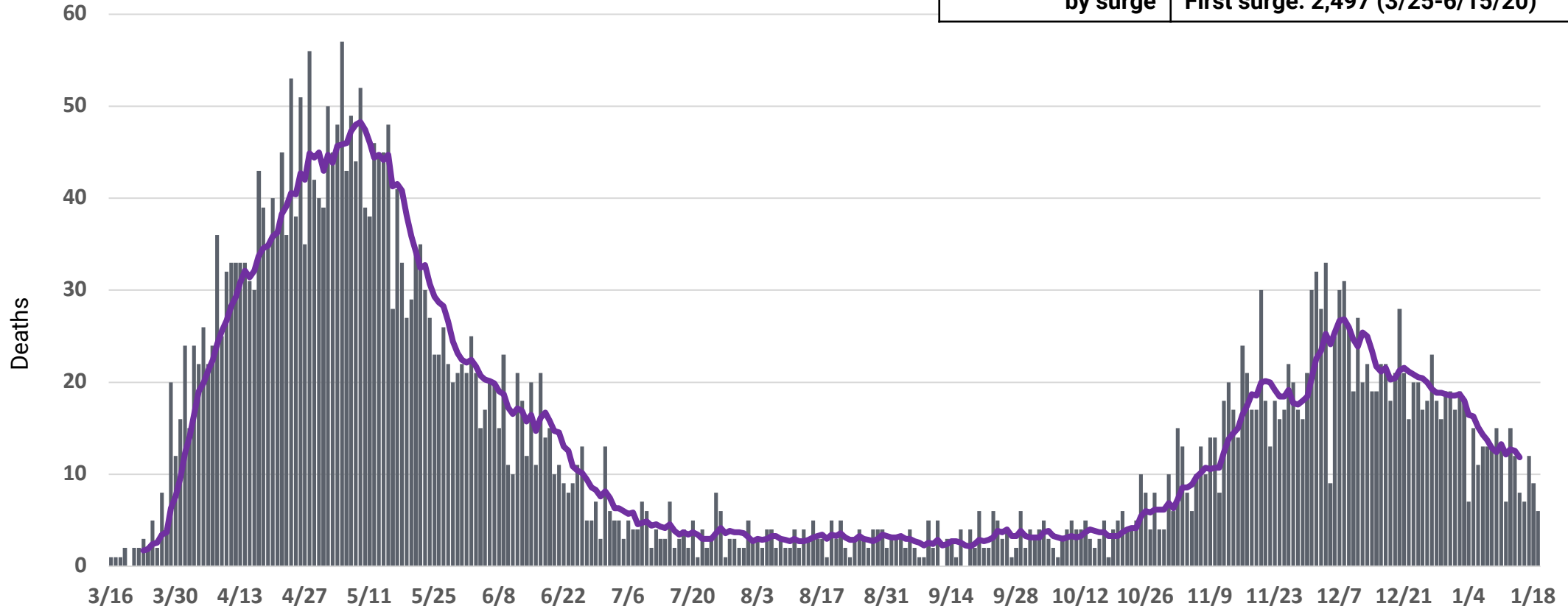
Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. Daily counts for most recent dates displayed are likely incomplete.

# COVID-19 deaths in the second surge have surpassed half of the deaths in first surge.



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

Peak 7-day rolling average	48 avg. daily deaths 5/9/2020
Cumulative deaths by surge	Current surge: 1,405 (10/25-1/15/21) First surge: 2,497 (3/25-6/15/20)



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.

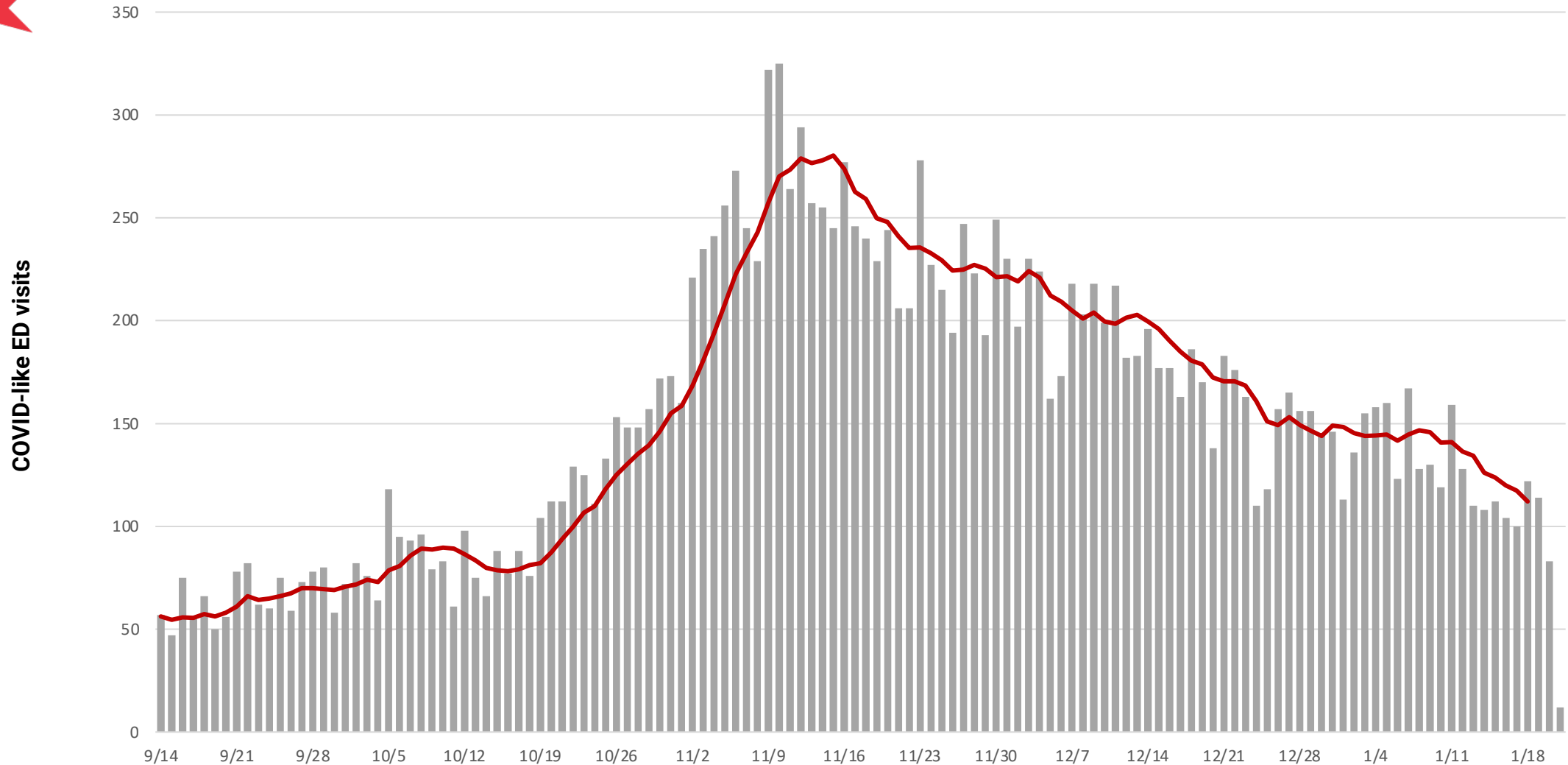


# Emergency Department Visits

# ED visits for COVID-like illness have been stable or decreasing for 65 days.



Recent Trend: Decrease 65 days (11/15/20-1/18/21)



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.



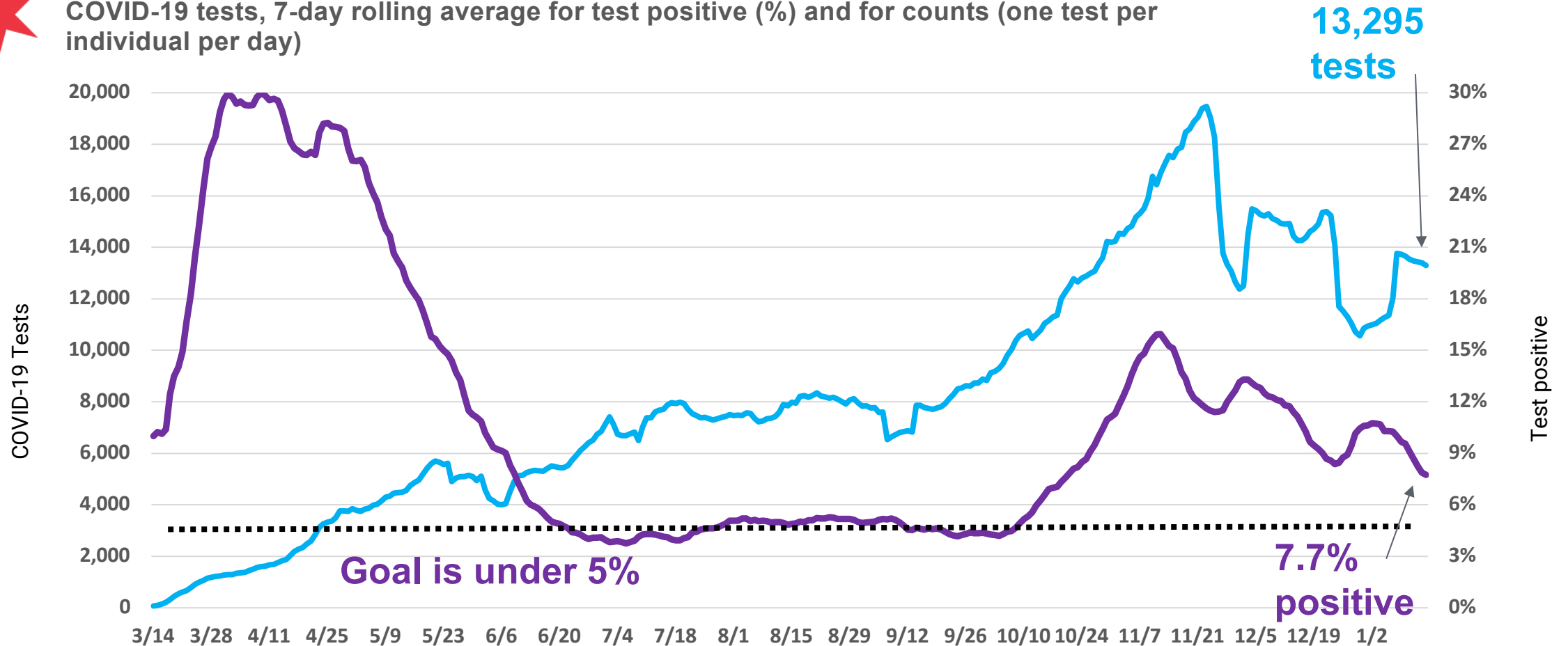


# Test Positivity

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



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



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 has been declining since 11/25.

Peak 7-day rolling average	1211 avg. occupied non-ICU beds 5/4/2020
Current Availability	22% 01/20/2021

COVID-19 acute/non-ICU beds occupied, daily counts and 7 day average, daily occupancy census (04/03/2020-01/20/2021)



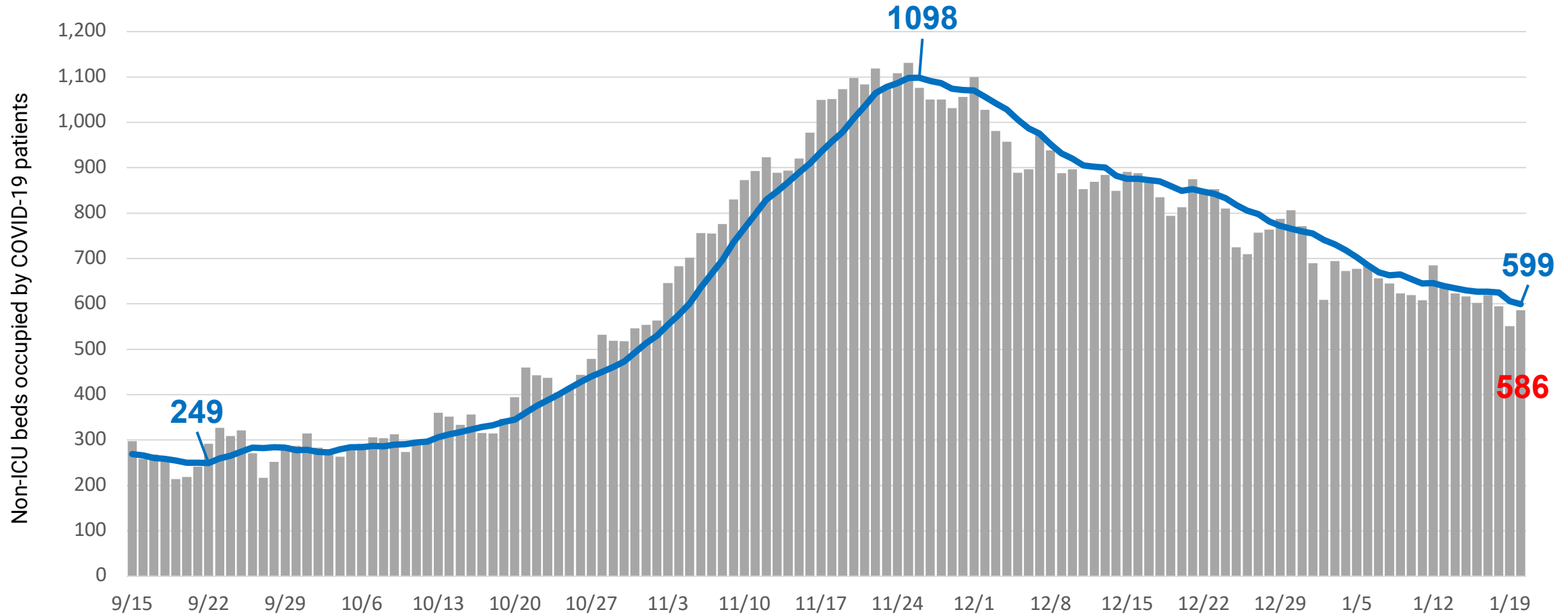
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning April 3 (acute non-ICU occupancy). Acute non-ICU bed counts include burn, emergency department, med/surg, other, pediatrics and psychiatry beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes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

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COVID-19 acute non-ICU beds occupied, daily counts and 7 day average, daily occupancy census (9/15/2020-01/20/2021)

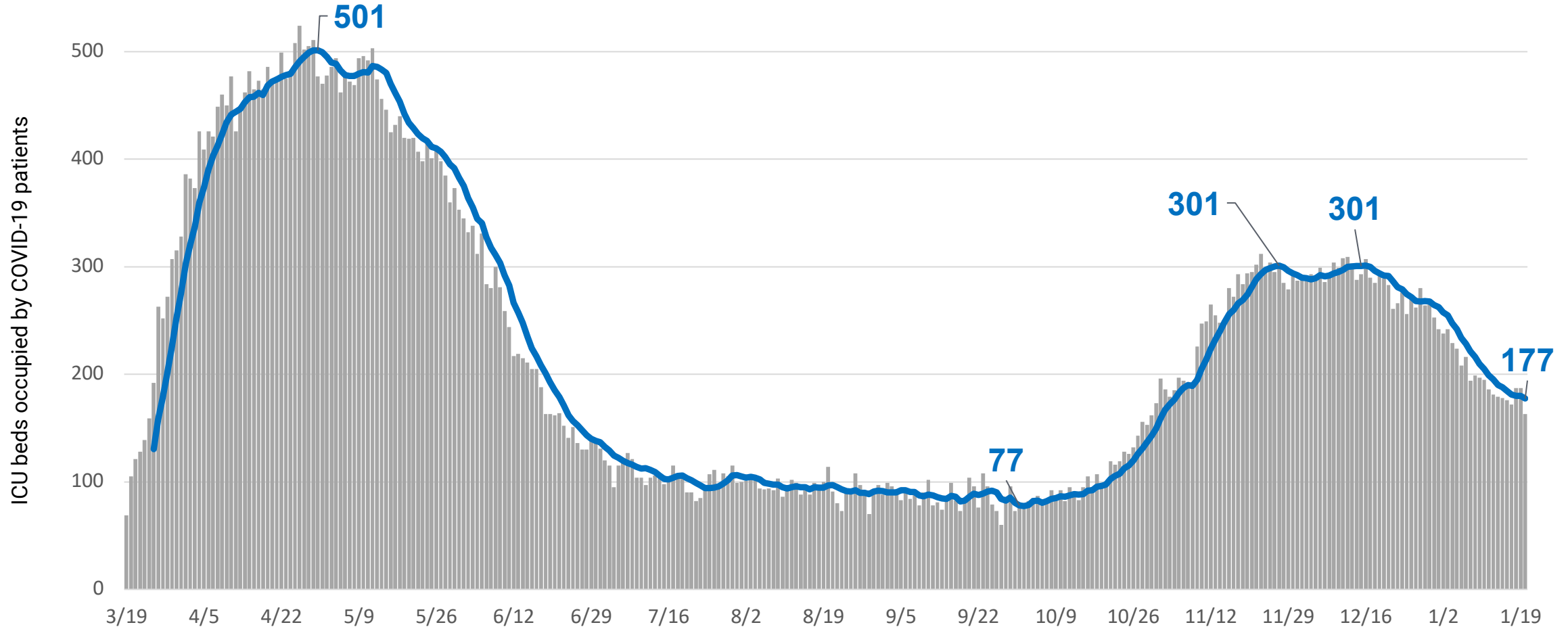


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# ICU occupancy from COVID-19 has been declining since 12/15.

Peak 7-day rolling average	501 avg. occupied ICU beds 4/30/2020
Current Availability	27% 01/20/2021

COVID-19 ICU beds occupied, daily counts and 7 day average, daily occupancy census (03/13/2020 - 01/20/2021)

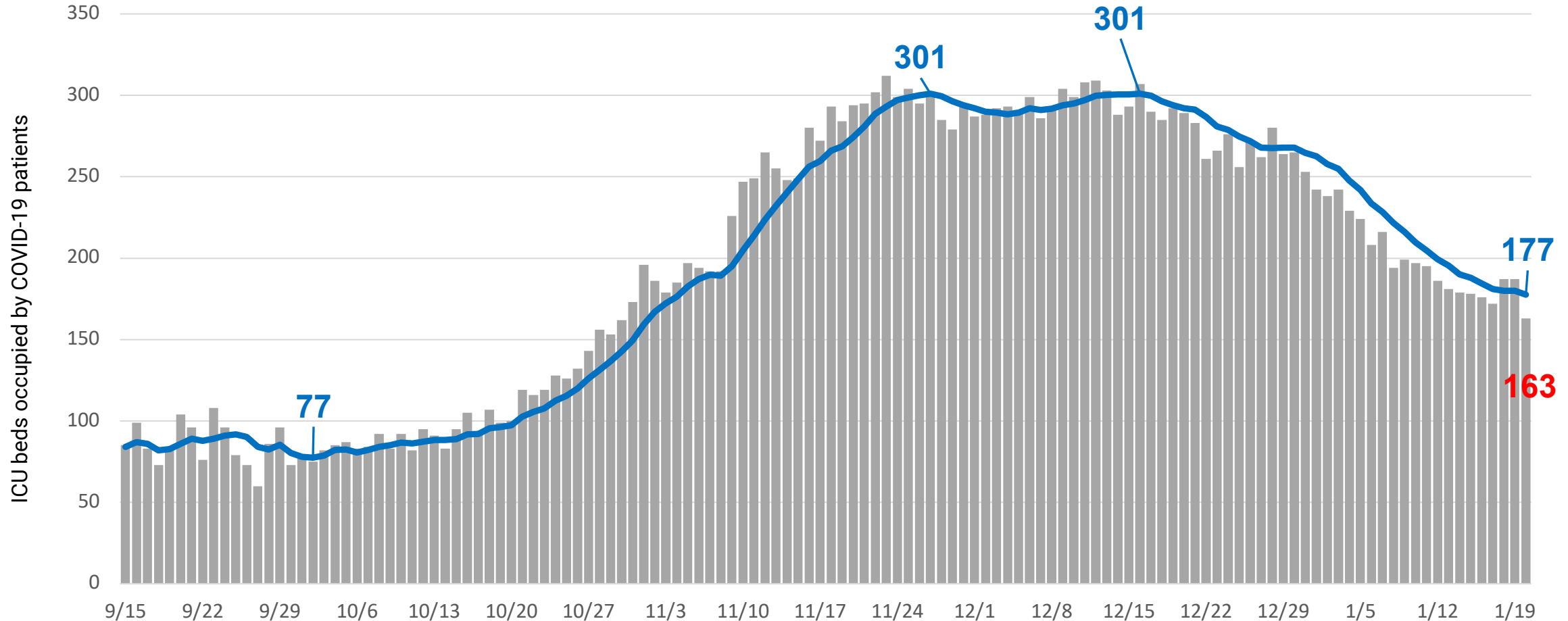


Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, the definition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

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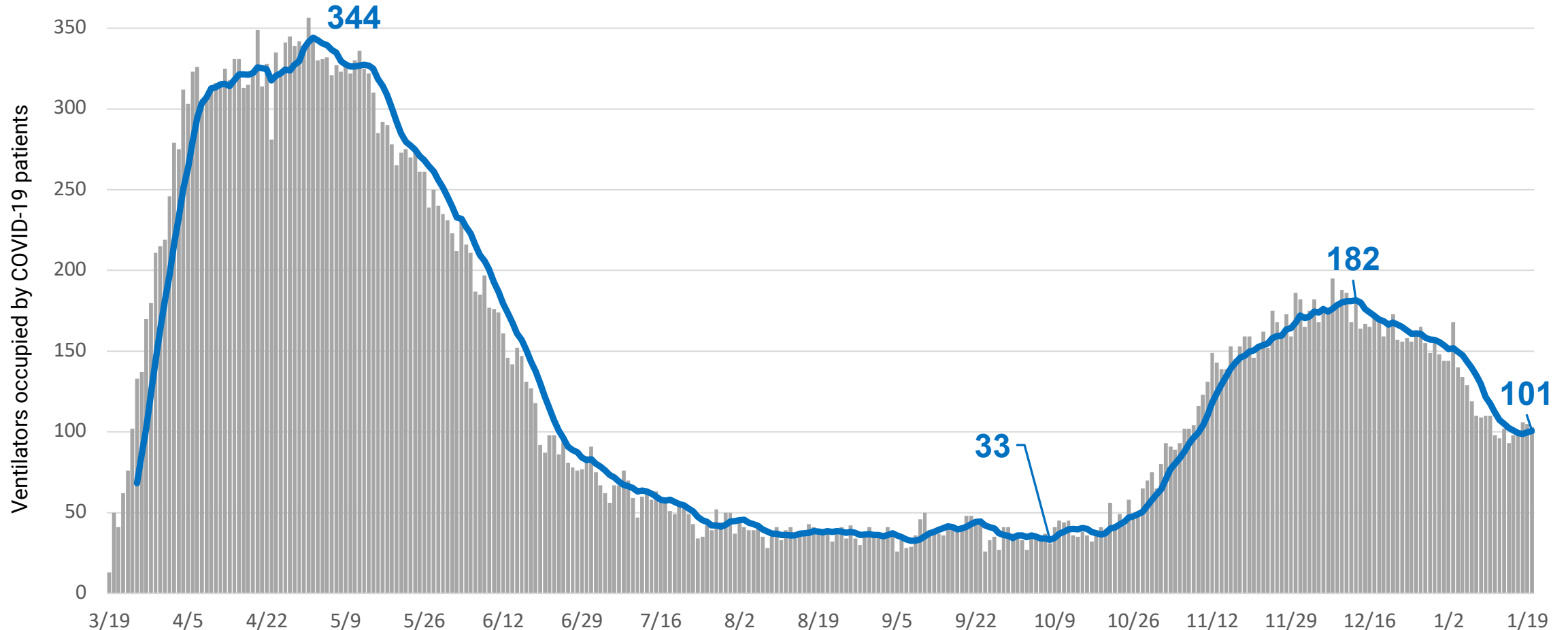
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# Ventilator utilization from COVID-19 has been declining since 12/13.

Peak 7-day rolling average	344 avg. ventilators in use 5/2/2020
Current Availability	70% 01/20/2021



COVID-19 ventilators in use, daily counts and 7 day average, daily utilization census (3/19/2020-01/20/2021)



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.

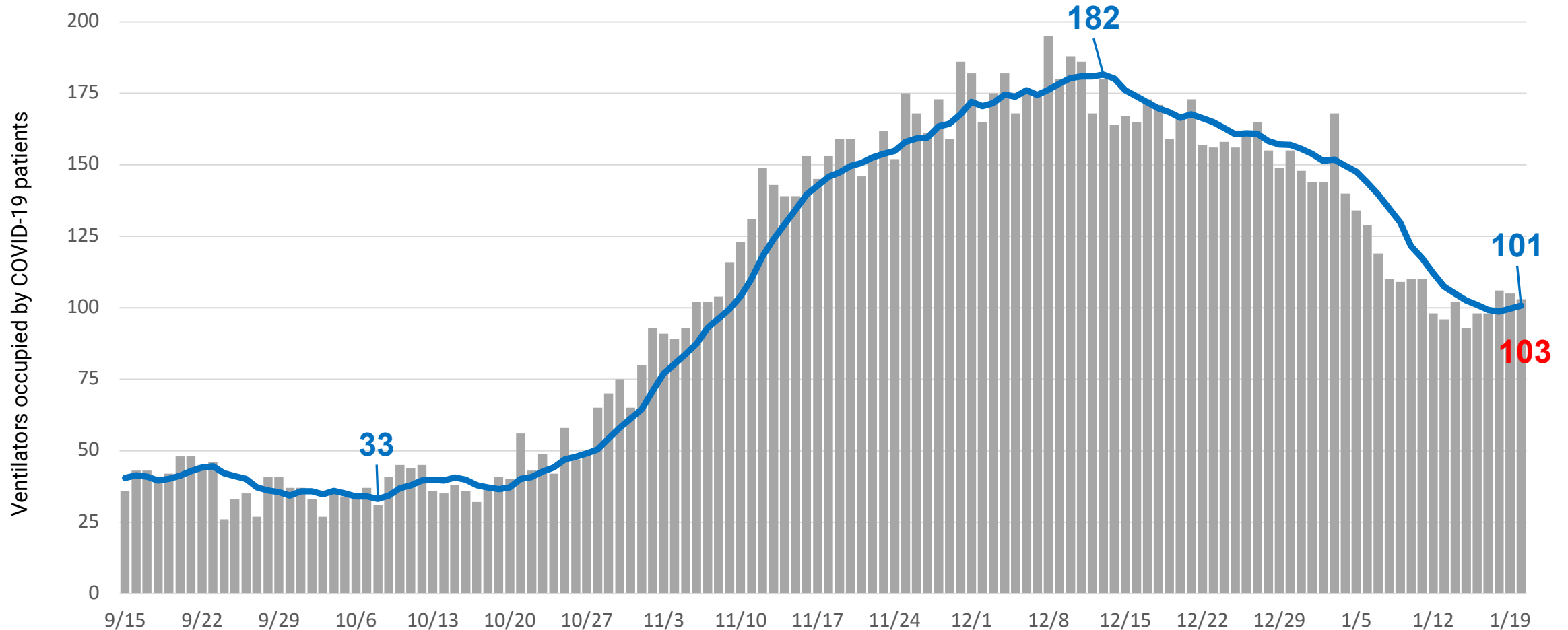


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COVID-19 ventilators in use, daily counts and 7 day average, daily utilization census (9/15/2020-01/20/2021)



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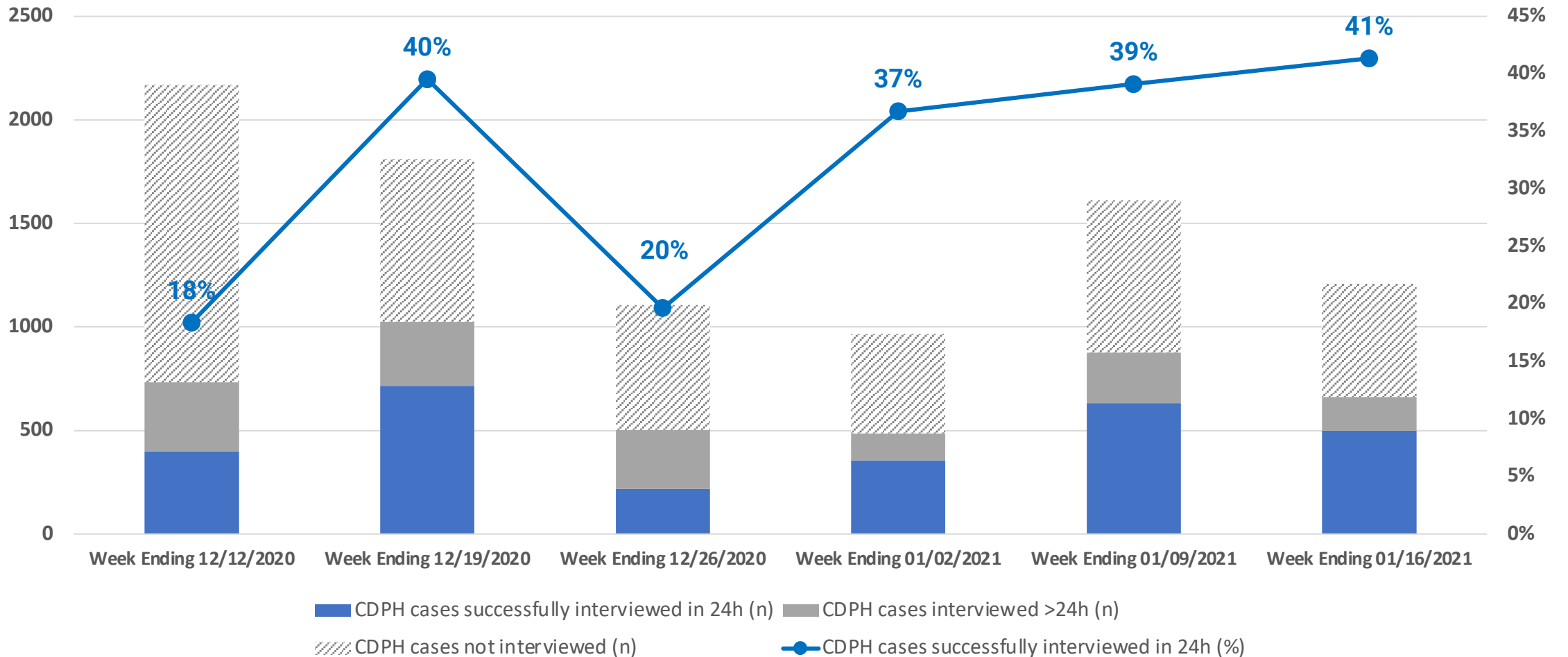
# Contact Tracing Response

# 41% of CDPH cases were successfully interviewed within 24 hours.



Number and percent of CDPH cases\* successfully interviewed within 24h by a case investigator, by week

CDPH began prioritizing case investigation for cases from CDPH testing facilities on 12/07/2020. Comparable data are not available prior to this date.



\*CDPH began prioritizing case investigation for cases from CDPH testing facilities on 12/07/2020. Prior to that date, all eligible cases were treated with equal priority. Starting the week ending 12/12/2020, the percentage of cases successfully interviewed refers to only CDPH cases. Data are provisional and may change.