



Protecting Chicago: Phase IV Re-Opening Metrics Update

November 14, 2020

(Data current through 11/11/2020)

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	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)
Hospitalizations 7-day rolling daily average					
Deaths 7-day rolling daily average					
COVID Emergency department visits 7-day rolling daily average					
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	Assign case for investigation within 24h for 50% of cases	Assign case for investigation within 24h for 75% of cases	Assign case for investigation within 24h for 100% of cases

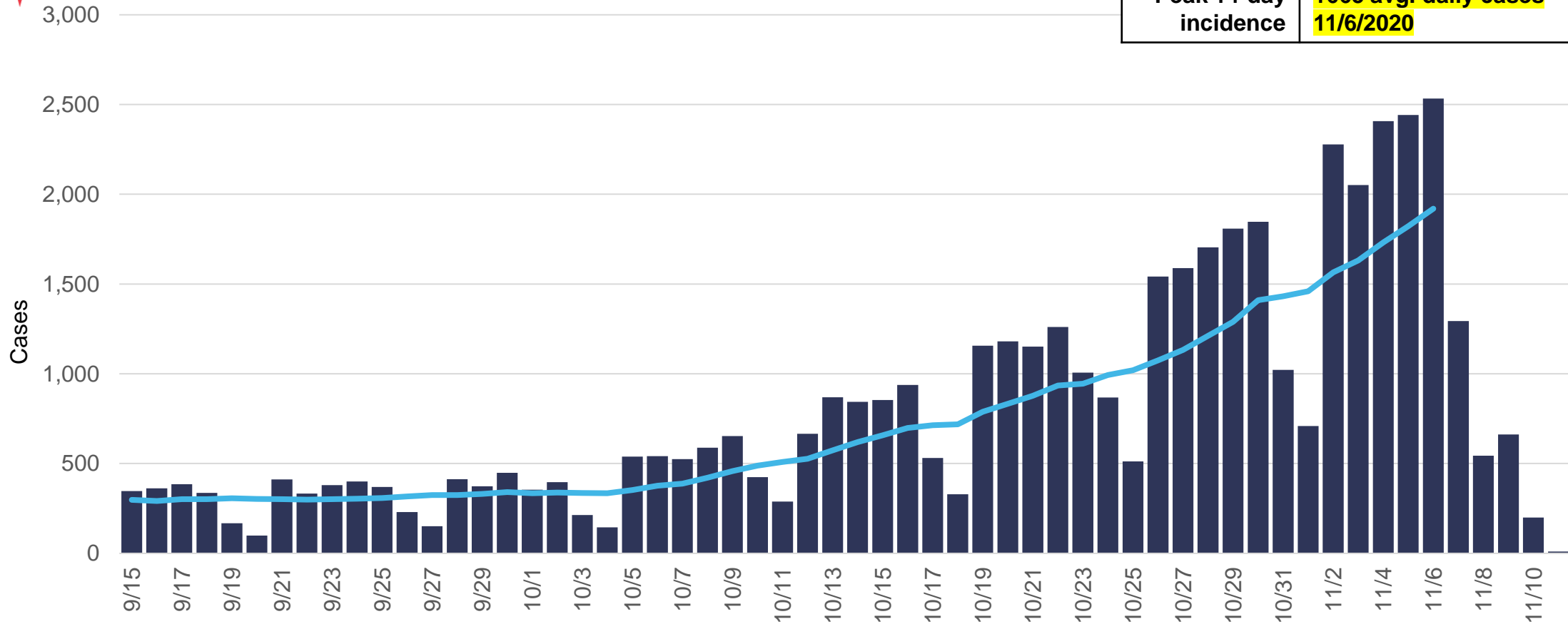


COVID-19 Confirmed Cases

COVID-19 case incidence continues to increase in speed. +86 cases per day



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



Recent Trend	Increase 11 days (10/4-10/15) 29 C/D Increase 22 days (10/15-11/6) 57 C/D
14-day Incidence	HIGH (1665 avg. daily cases*)
14-day slope	GROWTH +86.3 cases per day
Peak 14-day incidence	1665 avg. daily cases 11/6/2020

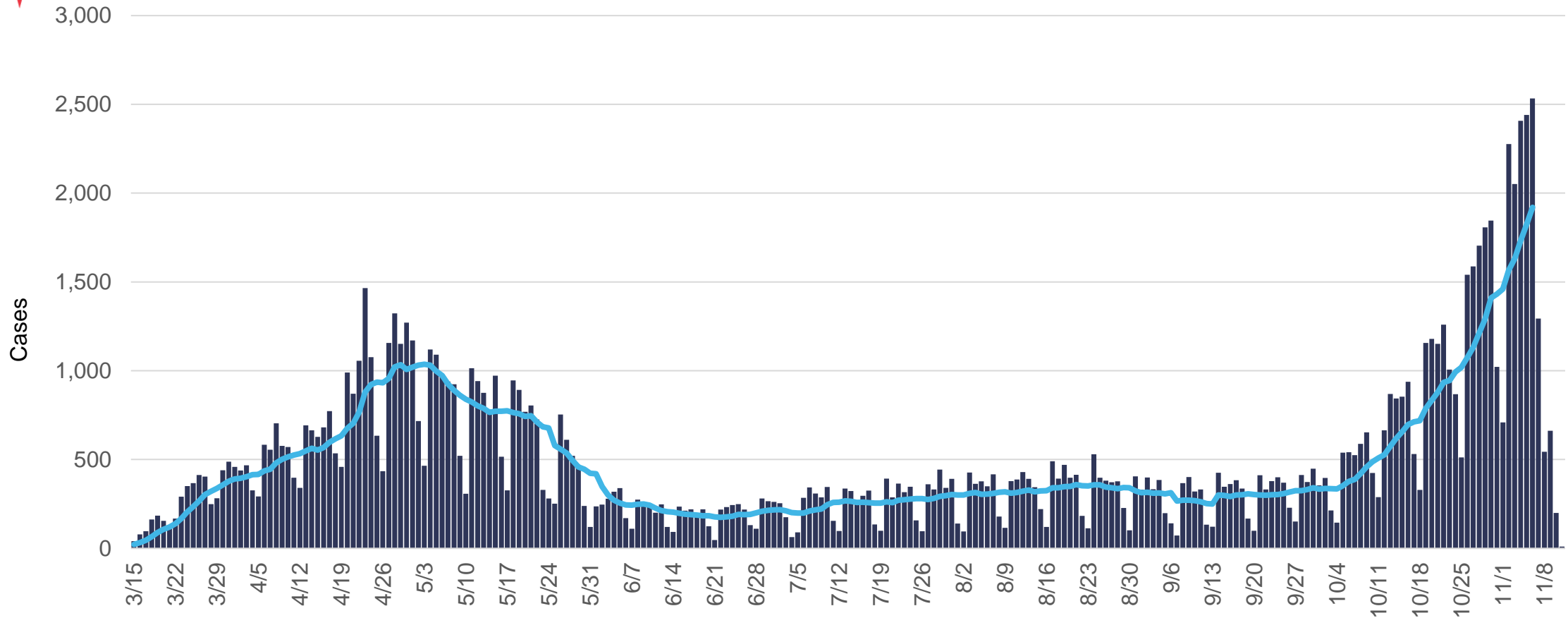
Daily COVID-19 cases with known specimen report date. *14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating 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 doubles previous May peak.



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

Peak 7-day rolling average	1665 avg. daily cases 11/6/2020
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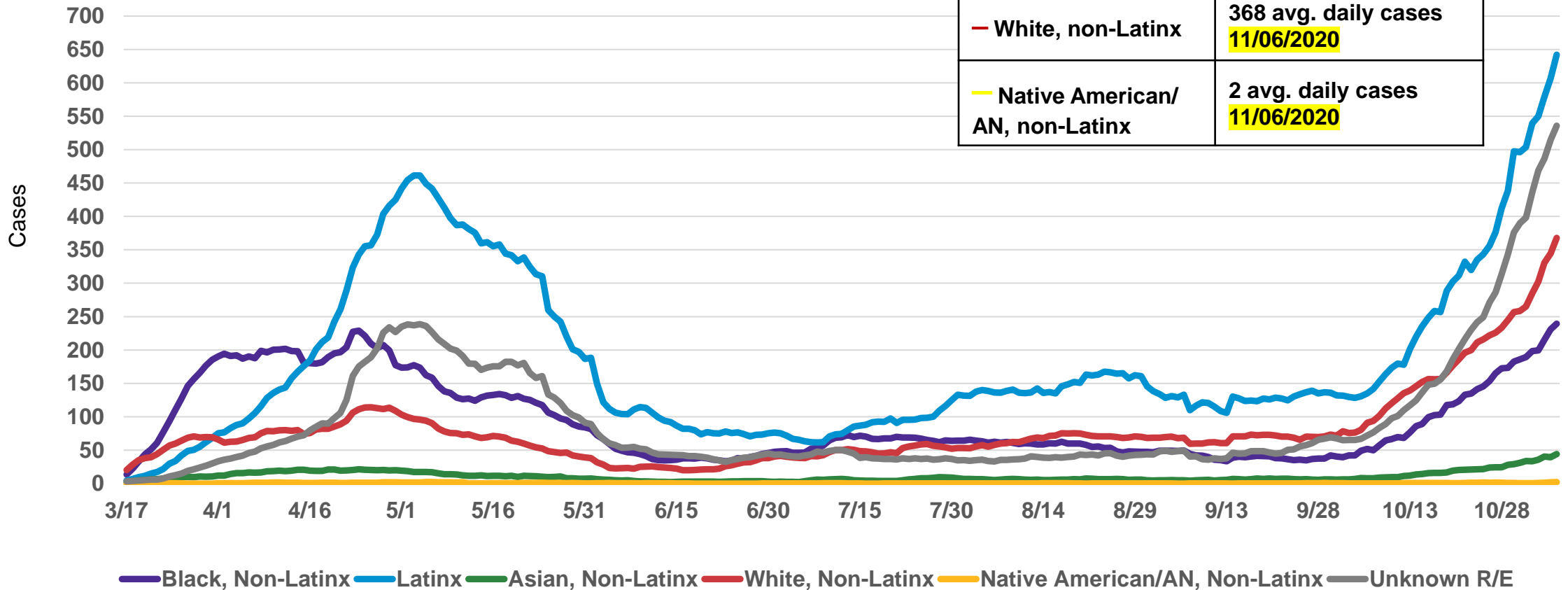


Daily COVID-19 cases with known specimen report date. *14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating 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.

Daily case incidence is at an all-time high for all race/ethnicity groups.



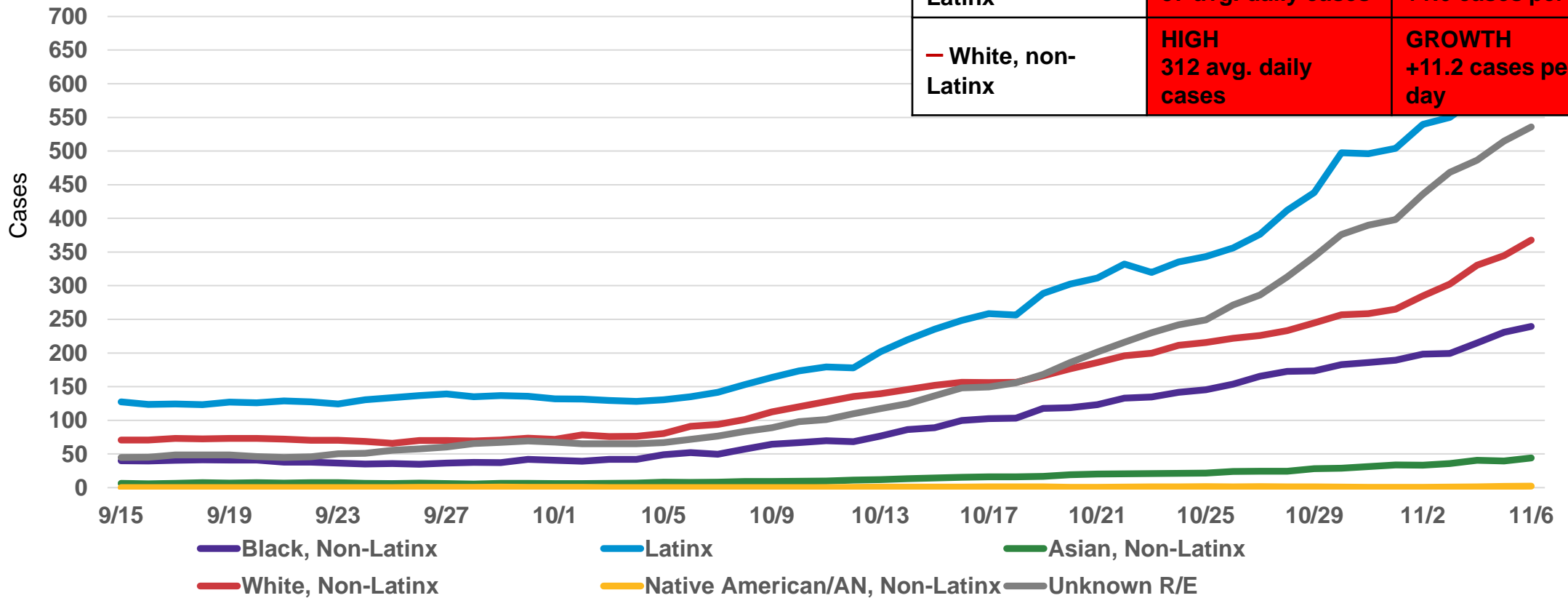
COVID-19 cases among Chicago residents by race/ethnicity, rolling 7-day average, specimen collection date





COVID-19 case incidence is very high and growing rapidly among all race/ethnicities, especially Latinx.

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



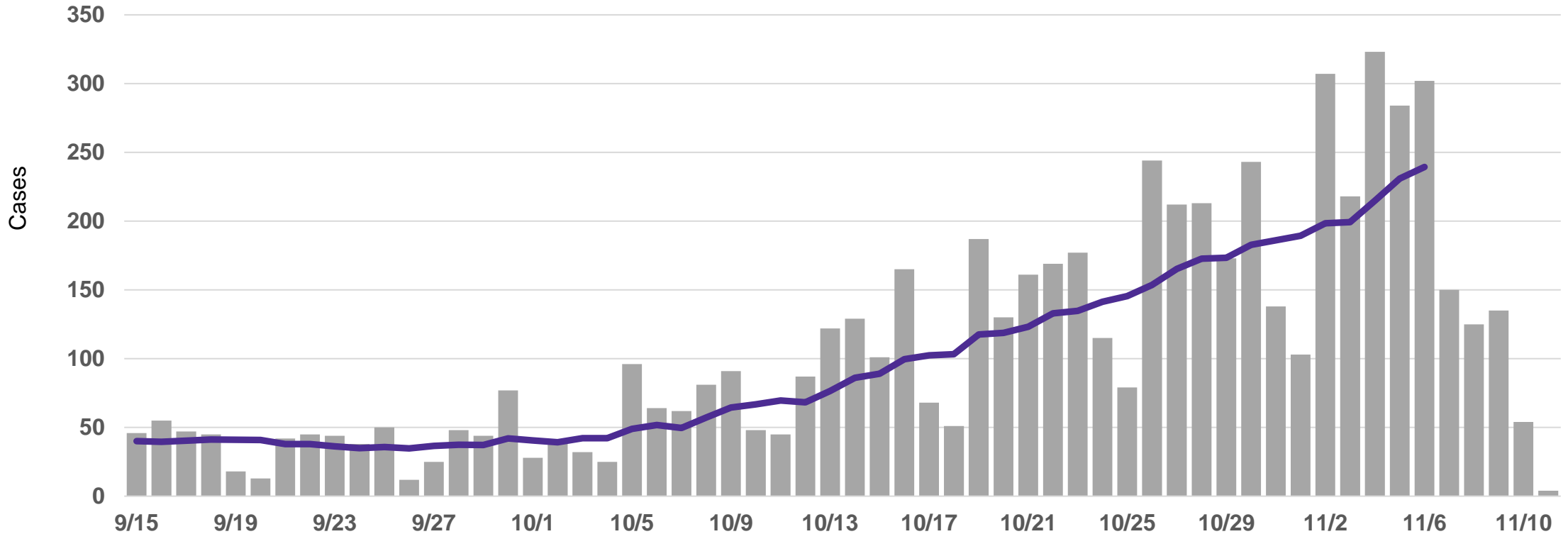
Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence.

Black, non-Latinx case incidence is at its highest ever and is growing rapidly.



Recent Trend	Increase 12 days (10/8-10/20) 5 C/D Increase 17 days (10/20-11/6) 7 C/D
14-day incidence	HIGH (211 avg. daily cases*)
14-day slope	GROWTH +7.0 cases per day
Peak 14-day incidence	211 avg. daily cases 11/06/2020

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



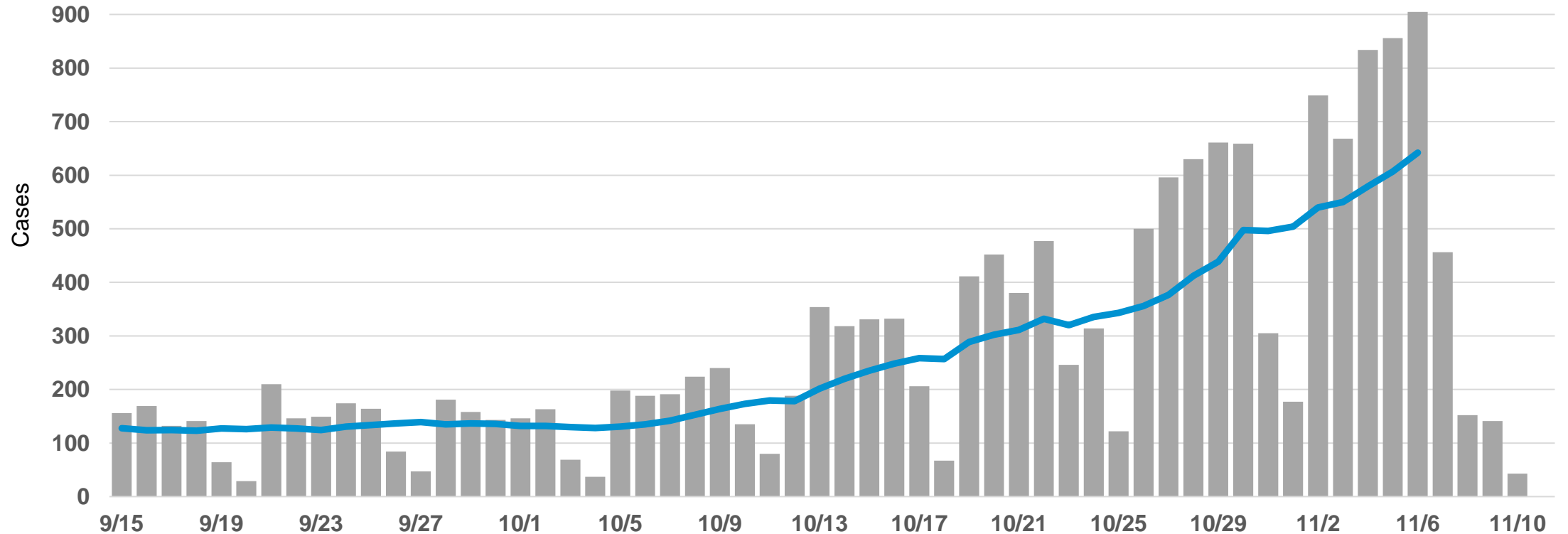
Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates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

Latinx case incidence is at its highest ever and is growing faster than any other point.



Recent Trend	Increase 12 days (10/8-10/20) 12 C/D Increase 6 days (10/20-10/26) 9 C/D Increase 4 days (10/26-10/30) 35 C/D Increase 7 days (10/30-11/6) 21 C/D
14-day incidence	HIGH (570 avg. daily cases*)
14-day slope	GROWTH +21.9 cases per day
Peak 14-day incidence	570 avg. daily cases 11/6/2020

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



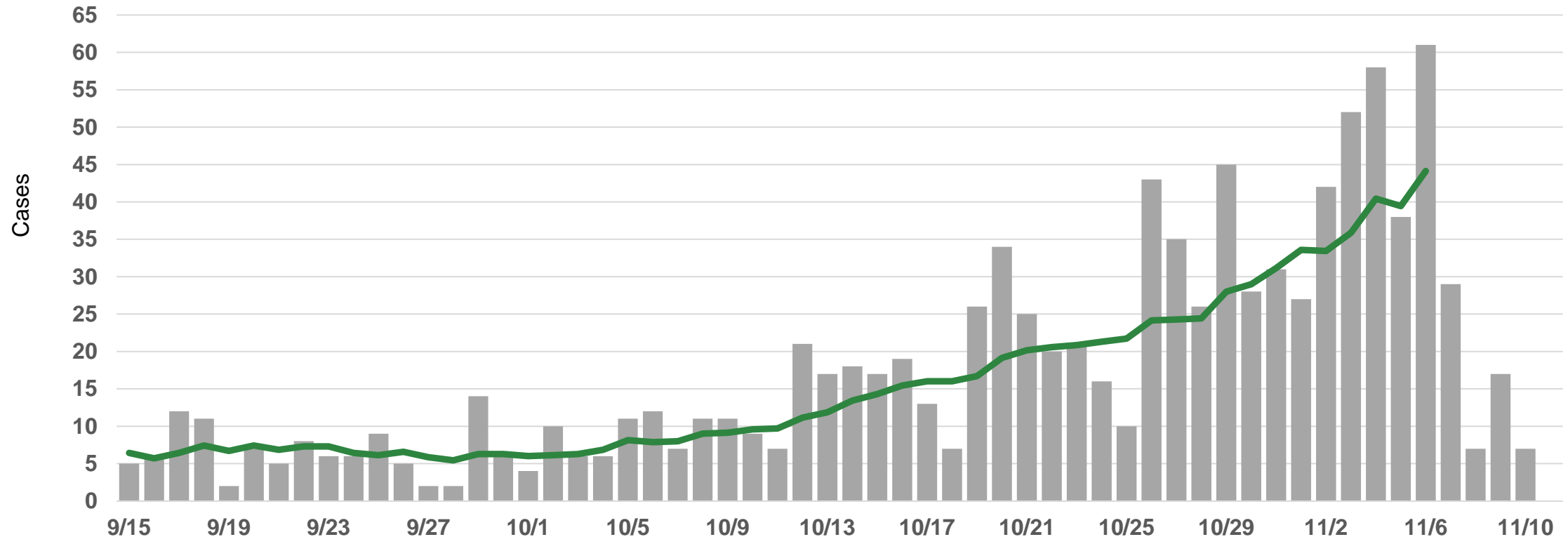
Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates 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 at its highest ever and growing faster than any other point.



Recent Trend	Stable 6 days (10/8-10/14) Increase 13 days (10/14-11/6) 2 C/D
14-day incidence	HIGH (37 avg. daily cases*)
14-day slope	GROWTH +2 cases per day
Peak 14-day incidence	37 avg. daily cases 11/6/2020

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

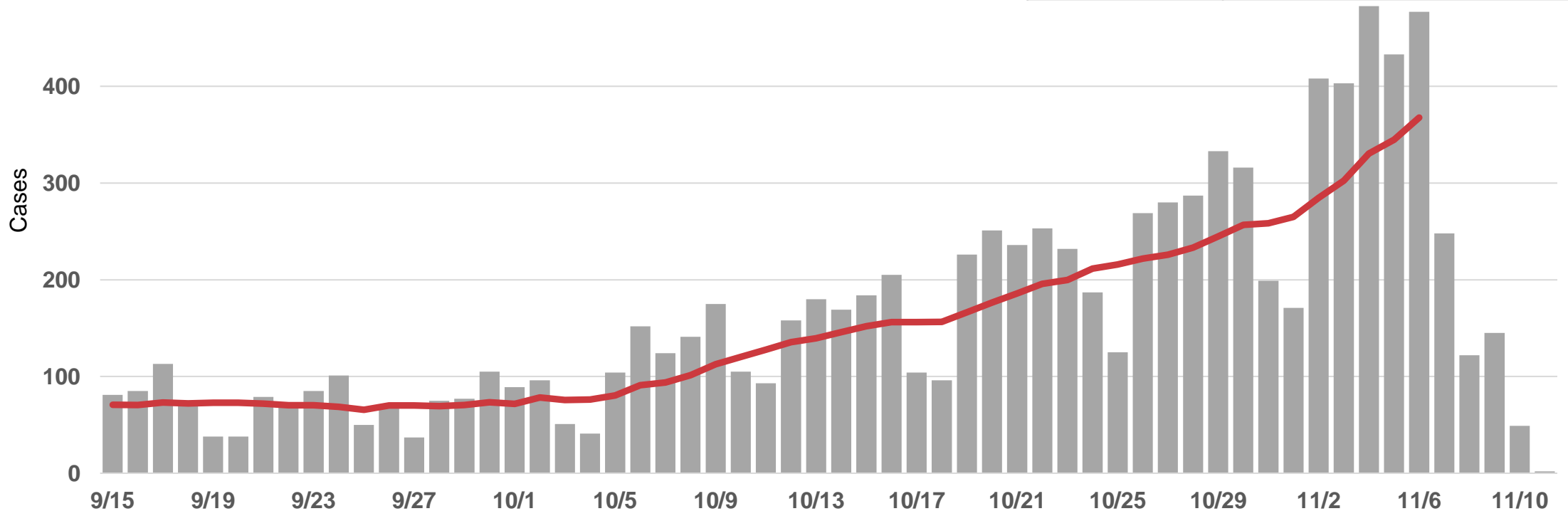


Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates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

White, non-Latinx case incidence is at its highest ever and is growing faster than any other point.



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



Recent Trend	Increase 7 days (10/8-10/15) 7 C/D Stable 3 days (10/15-10/18) Increase 4 days (10/18-10/22) 10 C/D Increase 10 days (10/22-11/1) 7 C/D Increase 5 days (11/1-11/6) 21 C/D
14-day incidence	HIGH (312 avg. daily cases*)
14-day slope	GROWTH +11.2 cases per day
Peak 14-day incidence	312 avg. daily cases 11/6/2020

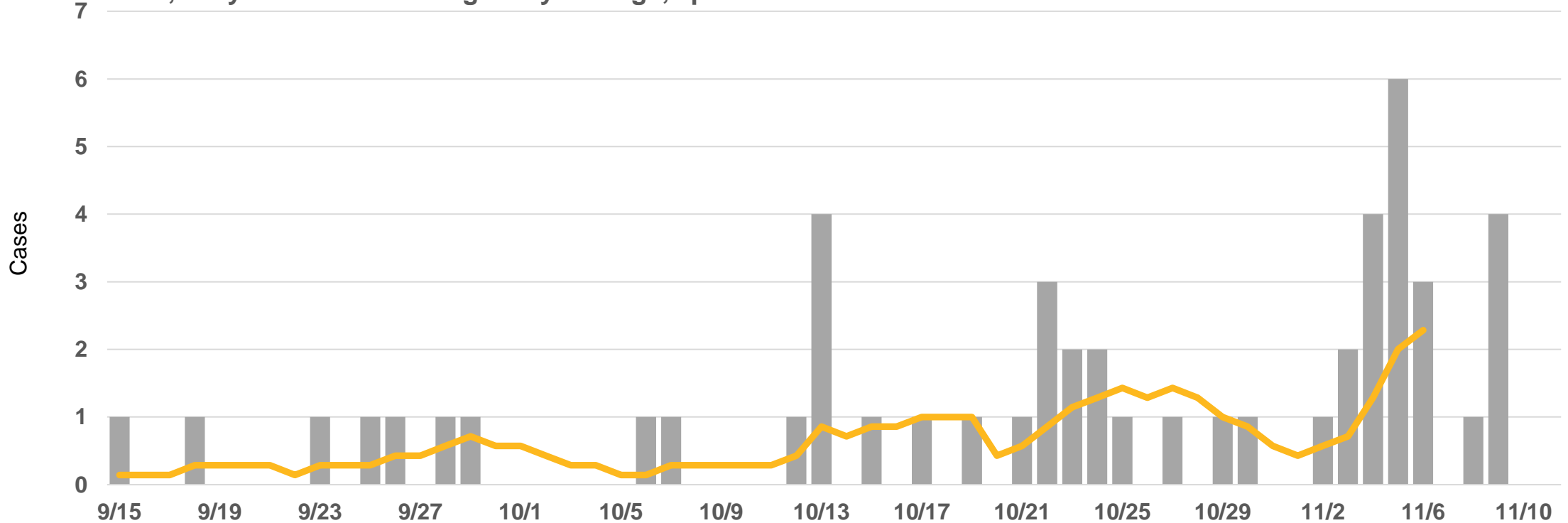
Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates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

Native American/Alaska Native added 16% of its total cases in the last 14 days.



Recent Trend	Cases at low incidence for >28 days. 140 cumulative cases.
14-day incidence	2 avg. daily cases*
14-day slope	+0.1 cases per day
Peak 14-day incidence	2 avg. daily cases 5/5/2020

COVID-19 cases among Native American/Alaska Native, non-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. Due to the citywide population size of 8,086, gating ranks are not applied here.

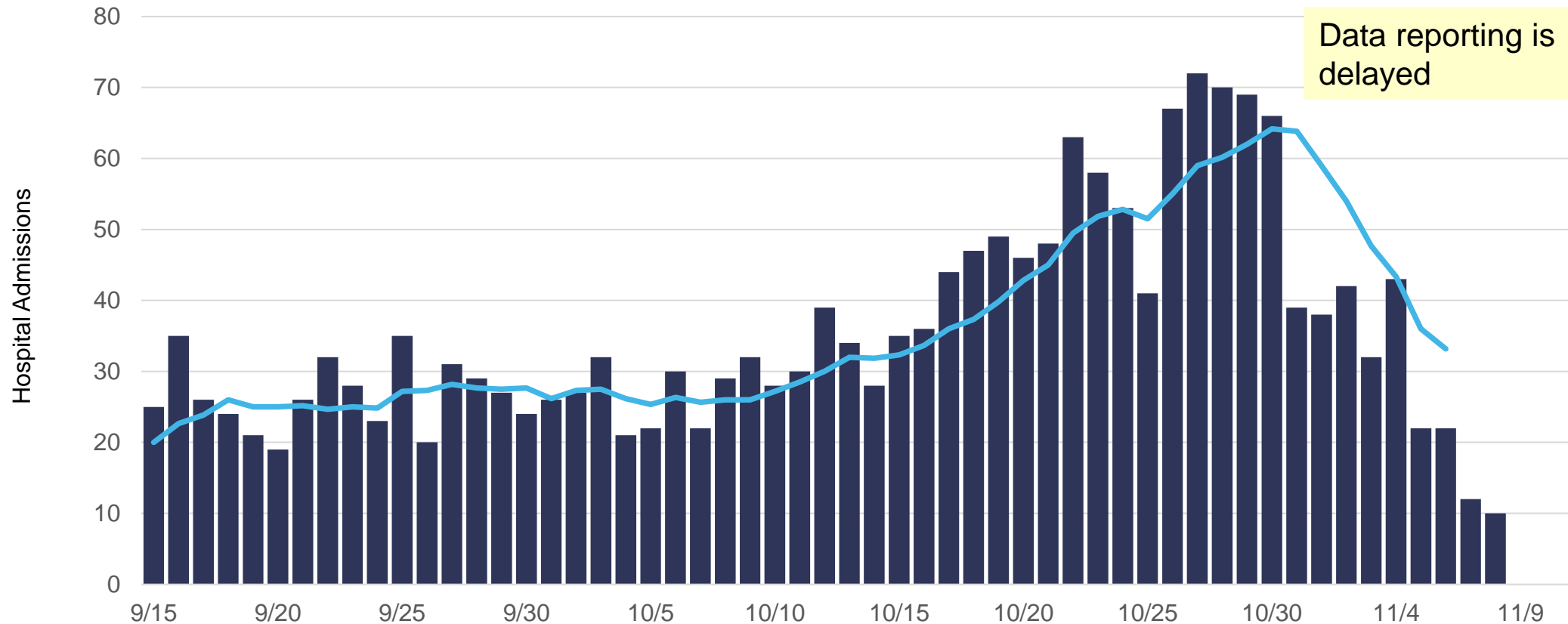


COVID-19 Severe Outcomes

Daily COVID-19 hospital admission is up 2.5X over 3 weeks.

Recent Trend	<i>Admissions doubled since 10/14</i>
Peak 7-day rolling average	173 avg. daily admissions 4/12/2020

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



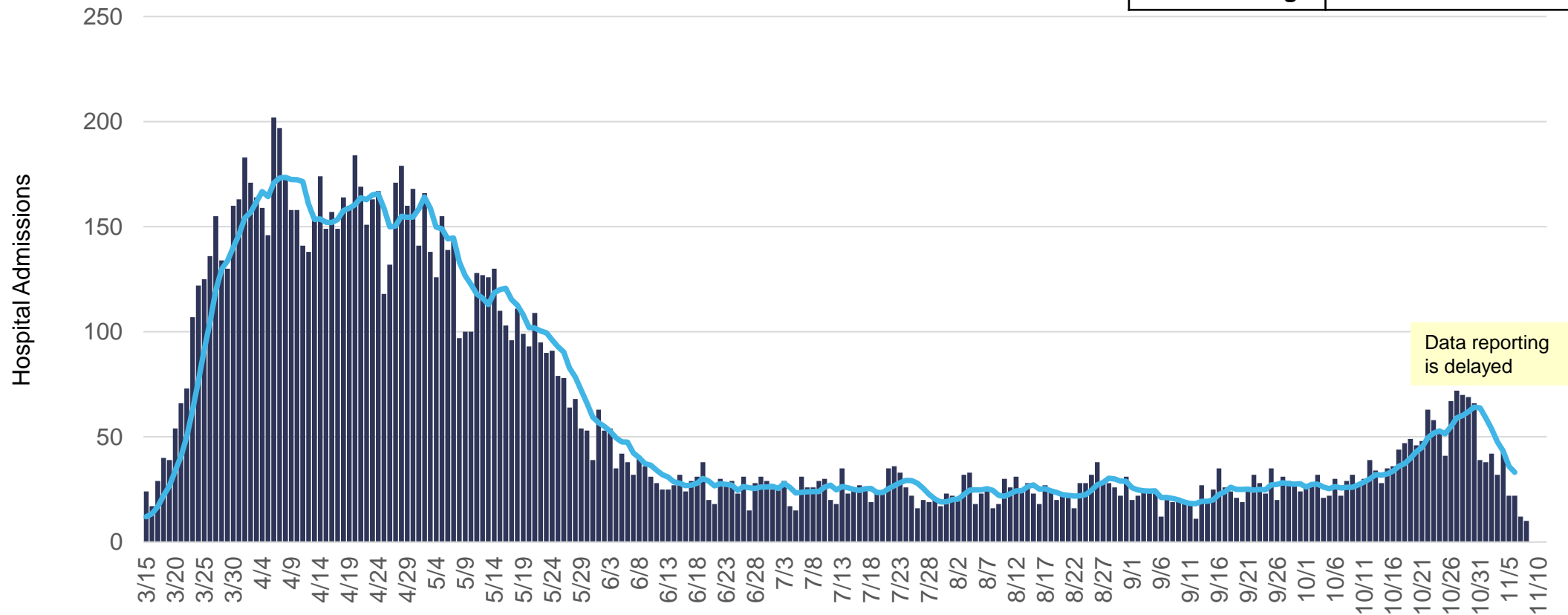
Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to not have been hospitalized. Six records with hospital admit dates from January and February 2020 are excluded from this chart. Peak daily admissions based on rolling 7-day average.

Daily COVID-19 hospital admissions are much higher than recent months and rising quickly.



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

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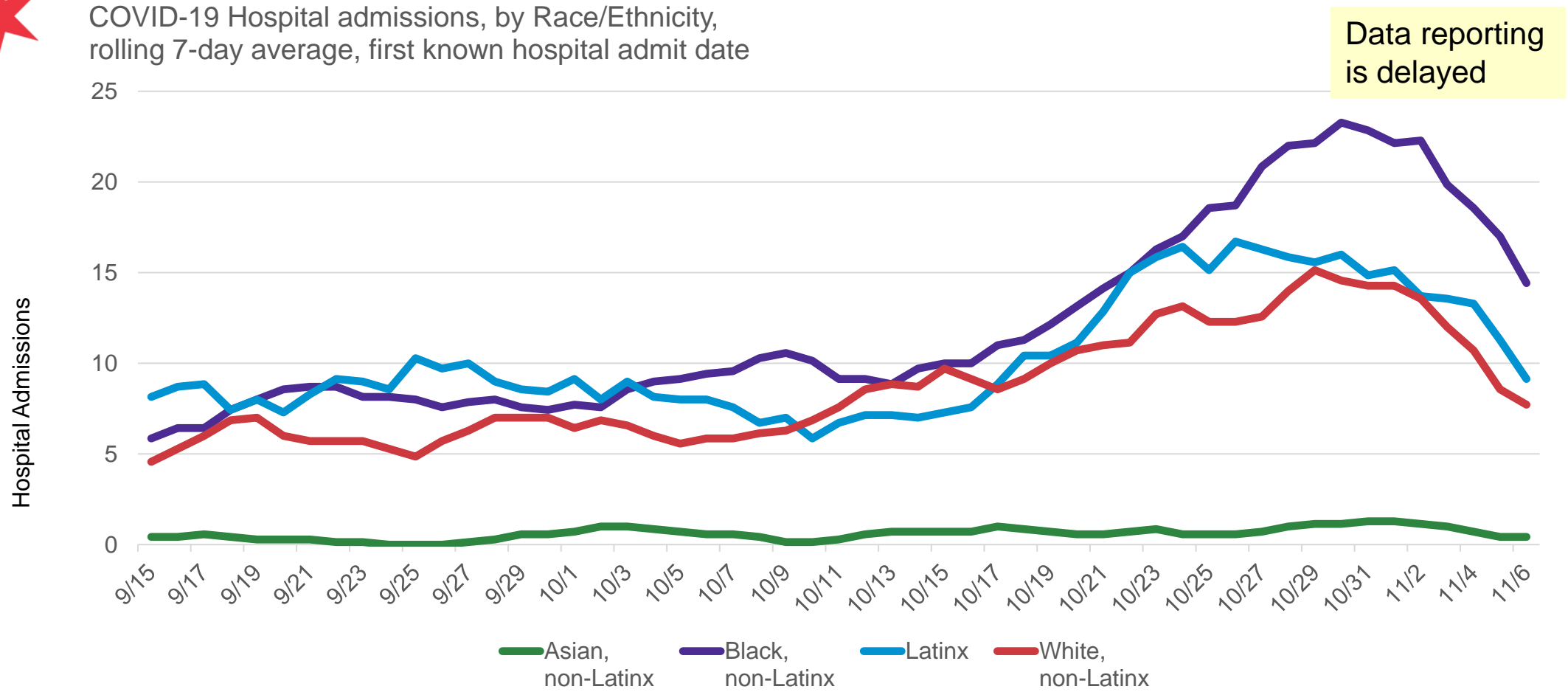


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Daily COVID-19 hospital admissions by race/ethnicity. Hospitalizations are rising for every group.



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



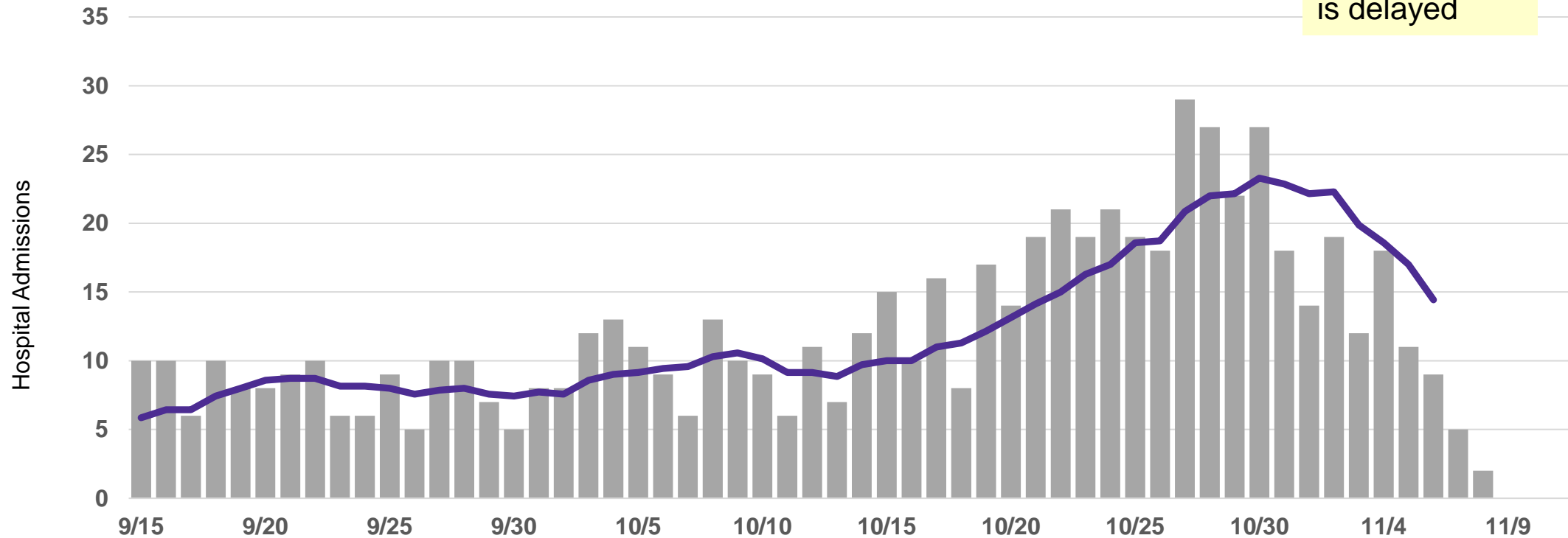
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Black, non-Latinx hospital admission are rising.



Recent Trend	<i>Admissions more than doubled since 10/13</i>
Peak 7-day rolling average	97 avg. daily admissions 4/6/2020

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



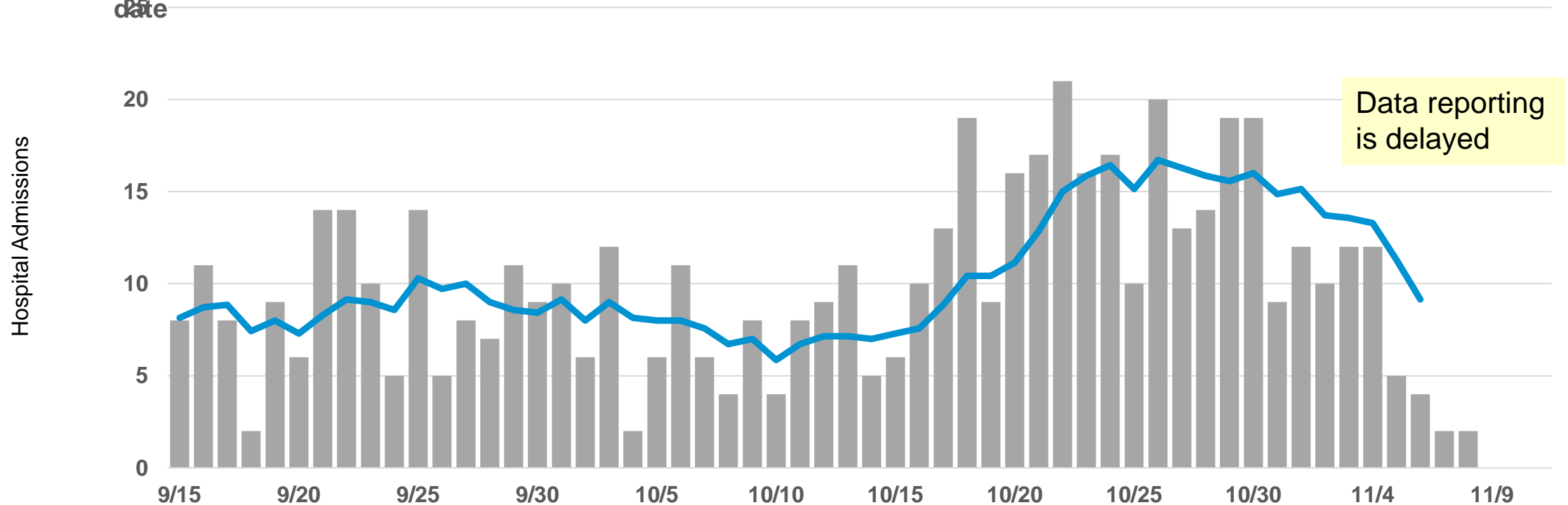
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Latinx hospital admissions are rising.



Recent Trend	<i>Admissions doubled since 10/13</i>
Peak 7-day rolling average	57 avg. daily admissions 4/28/2020

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

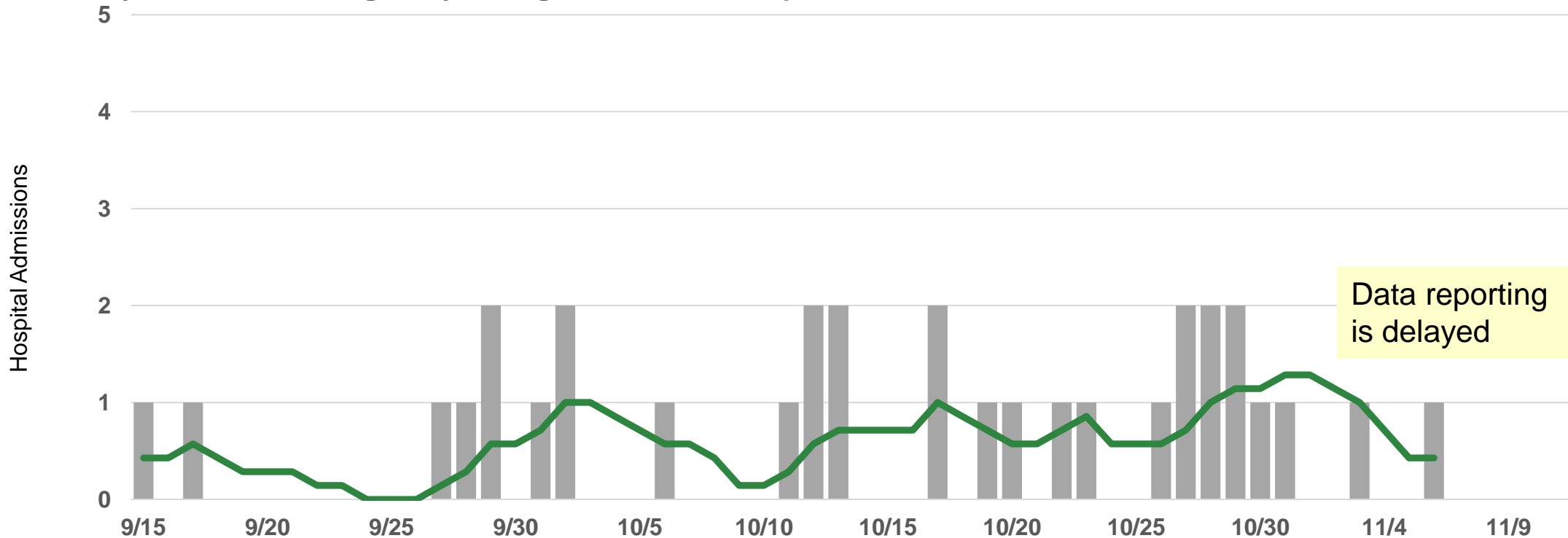


Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to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

Asian non-Latinx hospital admissions.

Recent Trend	Near-zero admissions
Peak 7-day rolling average	8 avg. daily admissions 4/13/2020

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



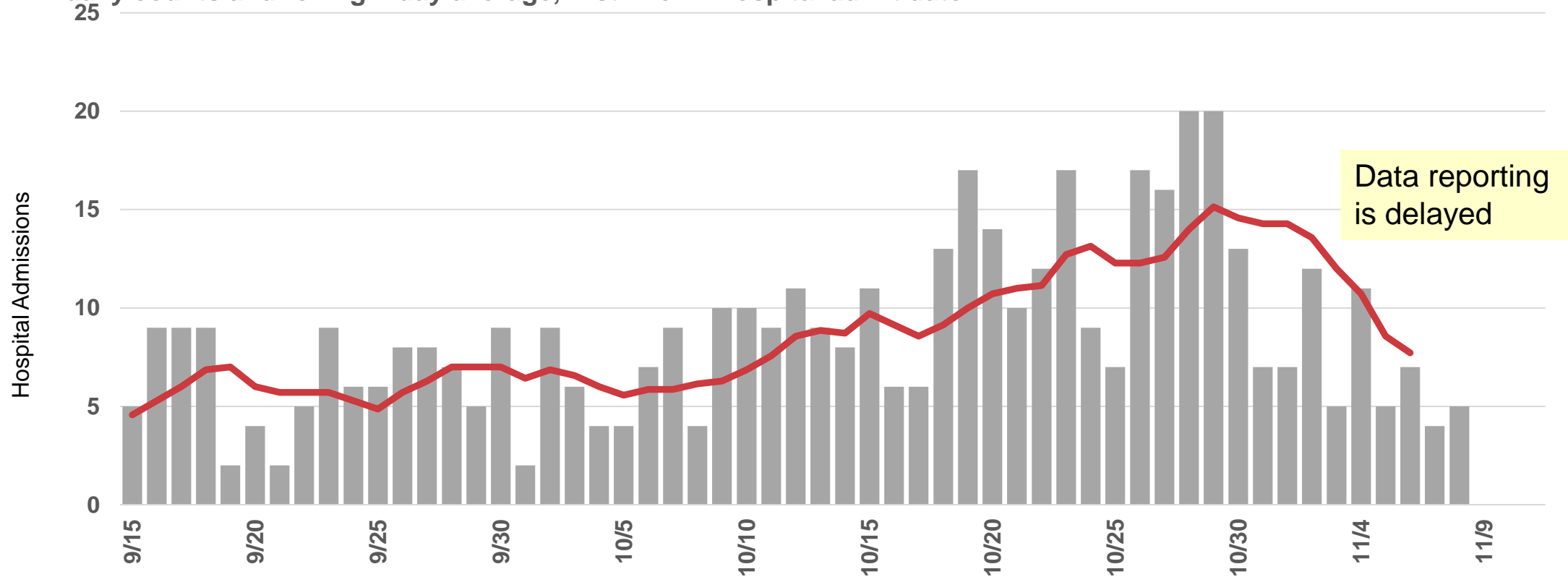
Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to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



Recent Trend	Admissions doubled since 10/5
Peak 7-day rolling average	27 avg. daily admissions 5/6/2020

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



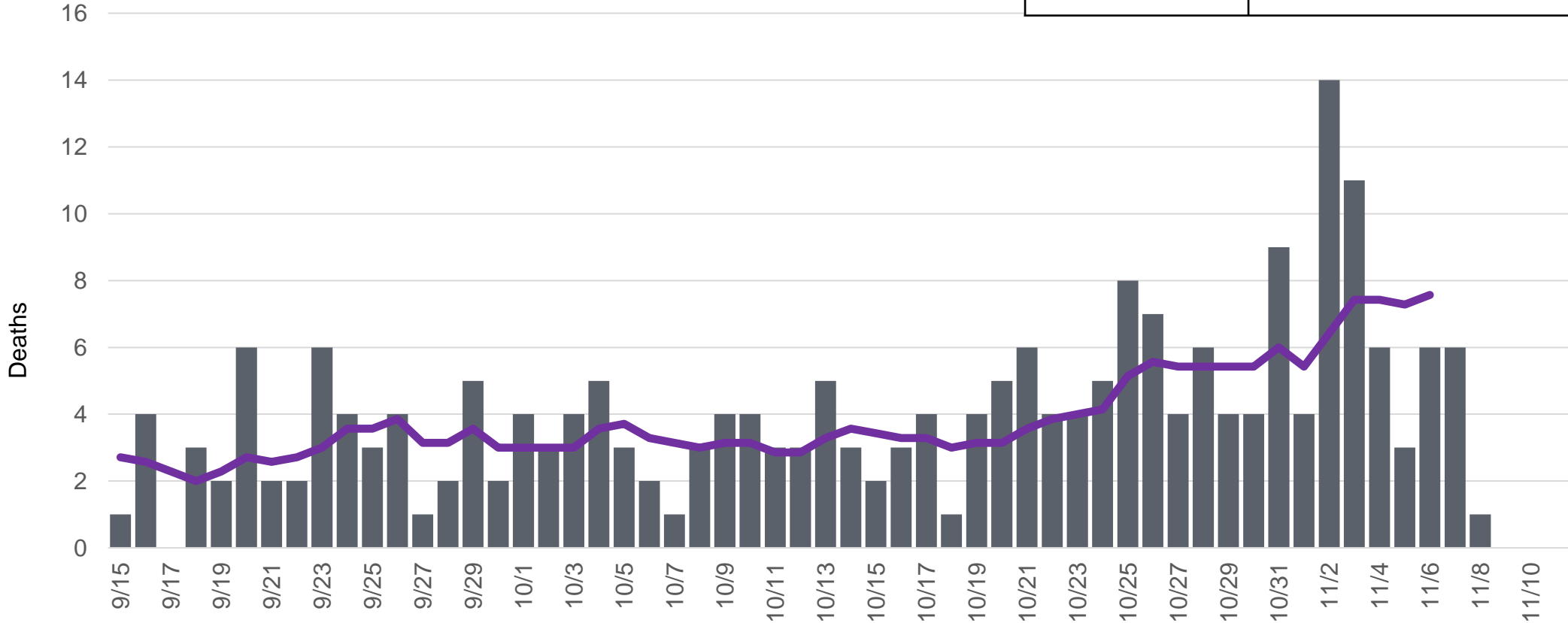
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COVID-19 deaths have risen 2.5X since 10/19.



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

Recent Trend	Increase 6 days (10/8-10/14) Stable 4 days (10/14-10/18) Increase 8 days (10/18-10/26) Stable 3 days (10/26-10/29) Increase 8 days (10/29-11/6)
Peak 7-day rolling average	48 avg. daily deaths 5/9/2020



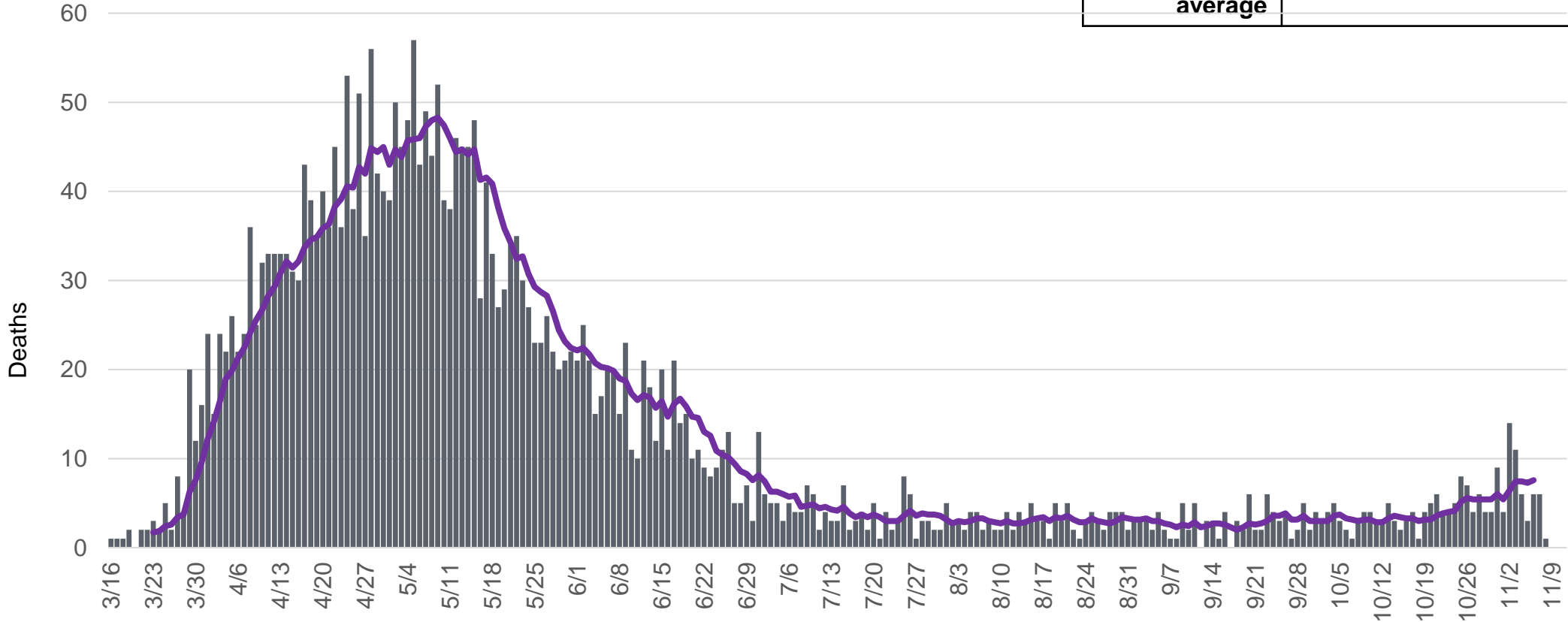
Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. Daily counts for most recent dates displayed are likely incomplete.

COVID-19 deaths are 6X fewer now when compared to the peak in May yet 2.5X greater than September.



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

Peak 7-day rolling average	48 avg. daily deaths 5/9/2020
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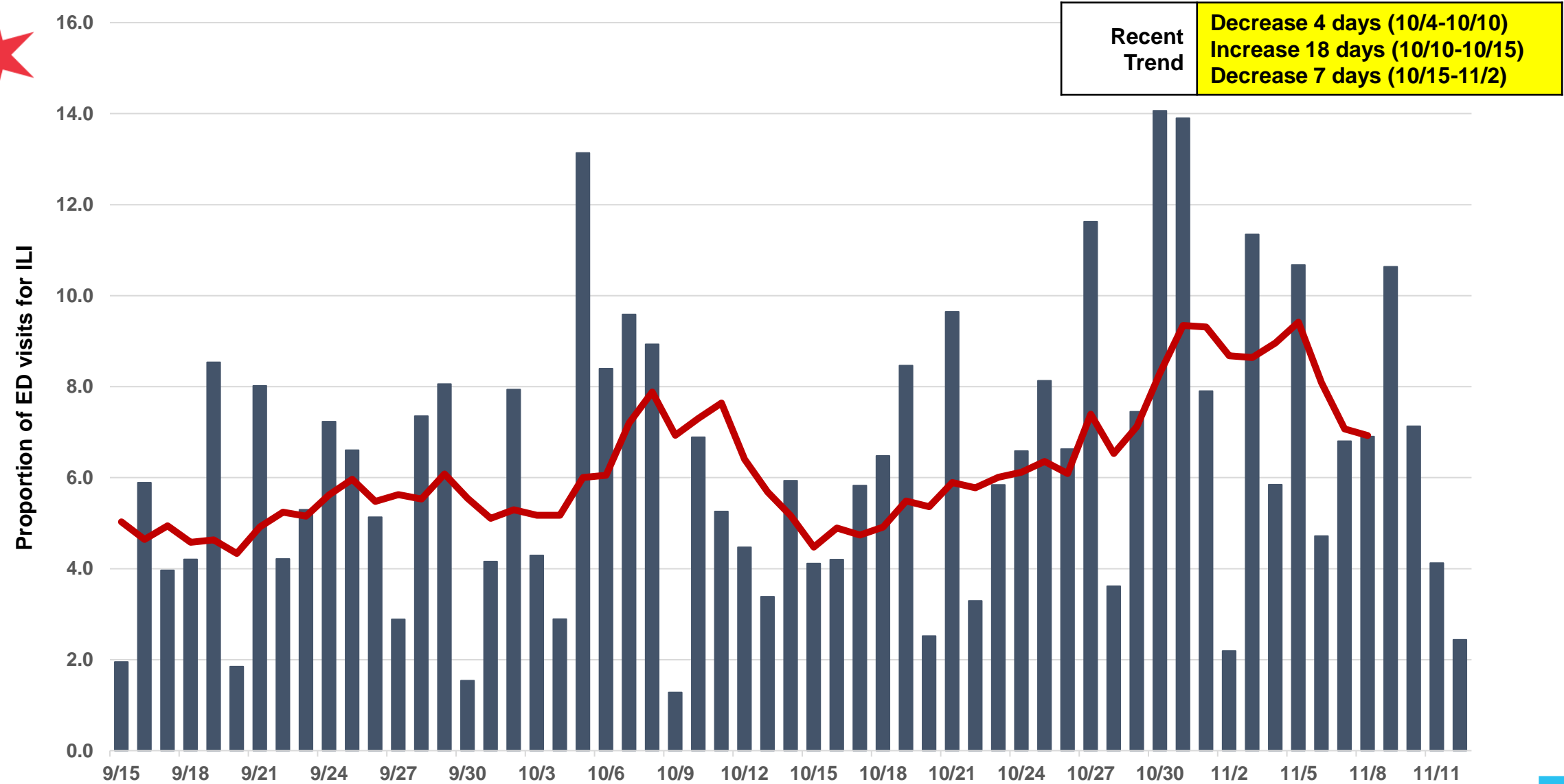


Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. Daily counts for most recent dates displayed are likely incomplete.



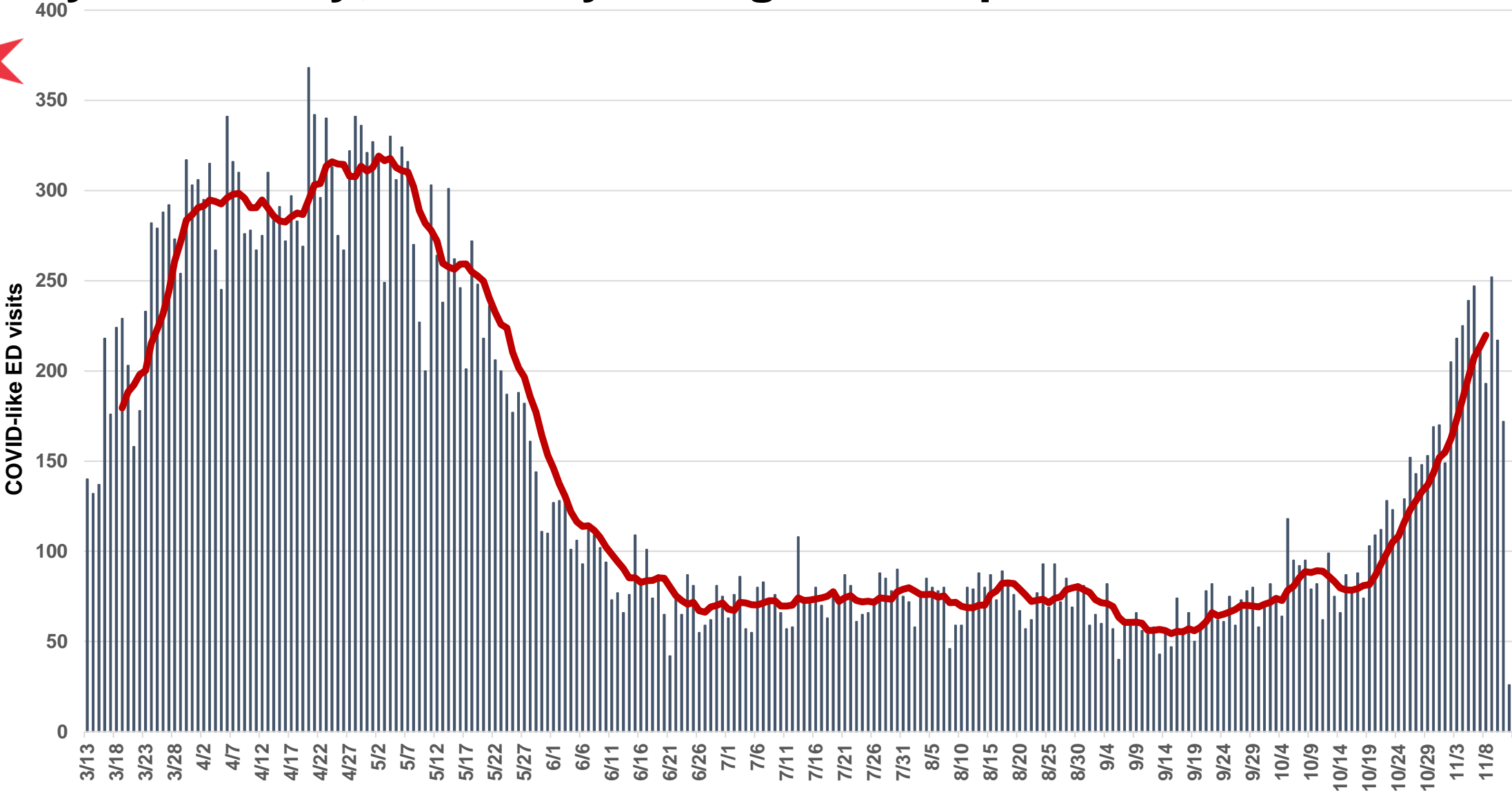
Emergency Department Visits

Proportion of ED visits for influenza-like illnesses has decreasing for 7 days after increasing for 18 days.



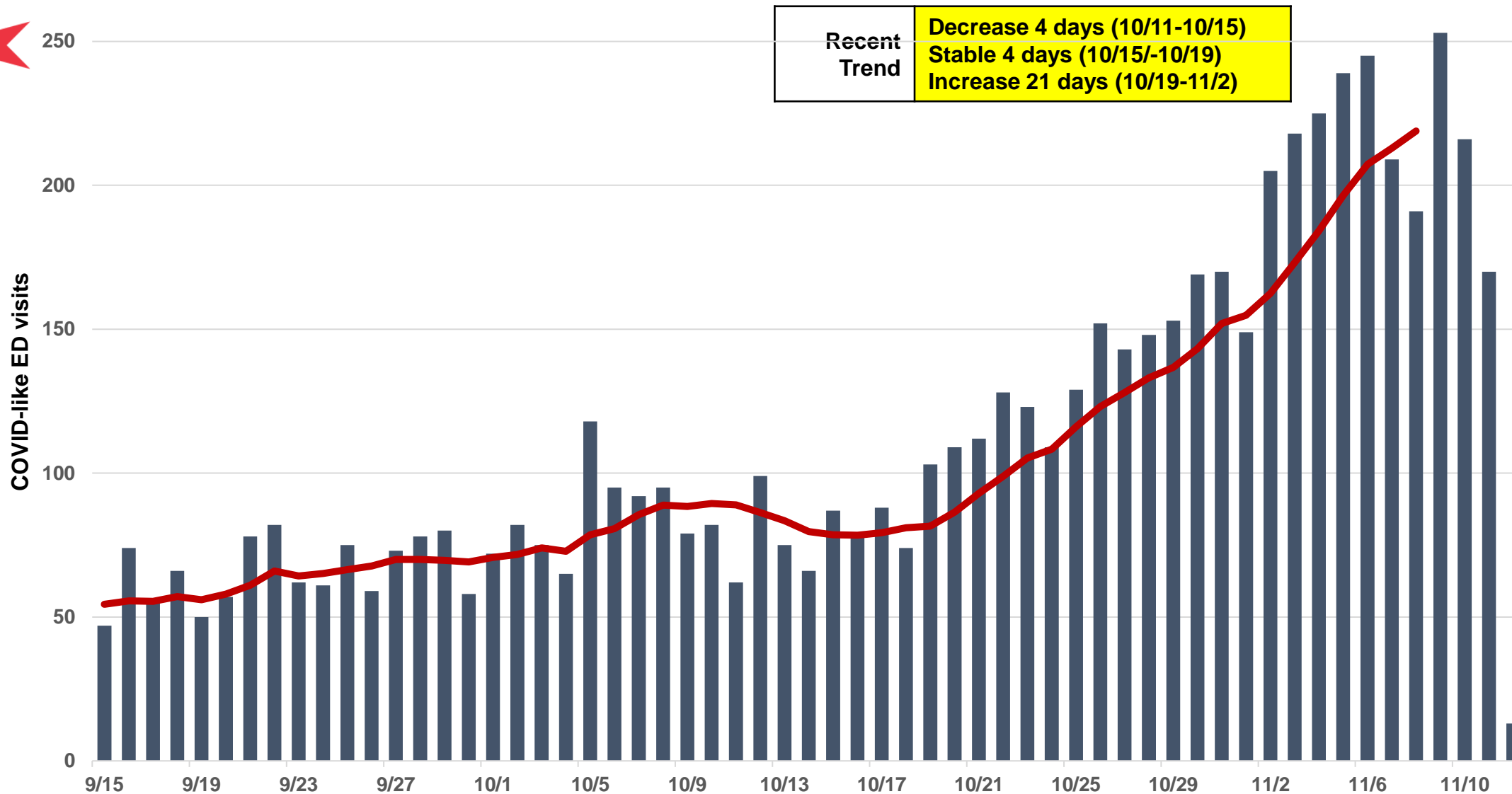
ILI: Influenza-like illness. Percentage of all emergency department visits reported with influenza-like illness symptoms among Chicago residents.
 Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.

ED visits for COVID-like illness reached the highest peak in early May at 318/day; currently 3X higher compared to 10/17



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.

ED visits for COVID-like illness has been increasing 21 days after being stable for 4 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.

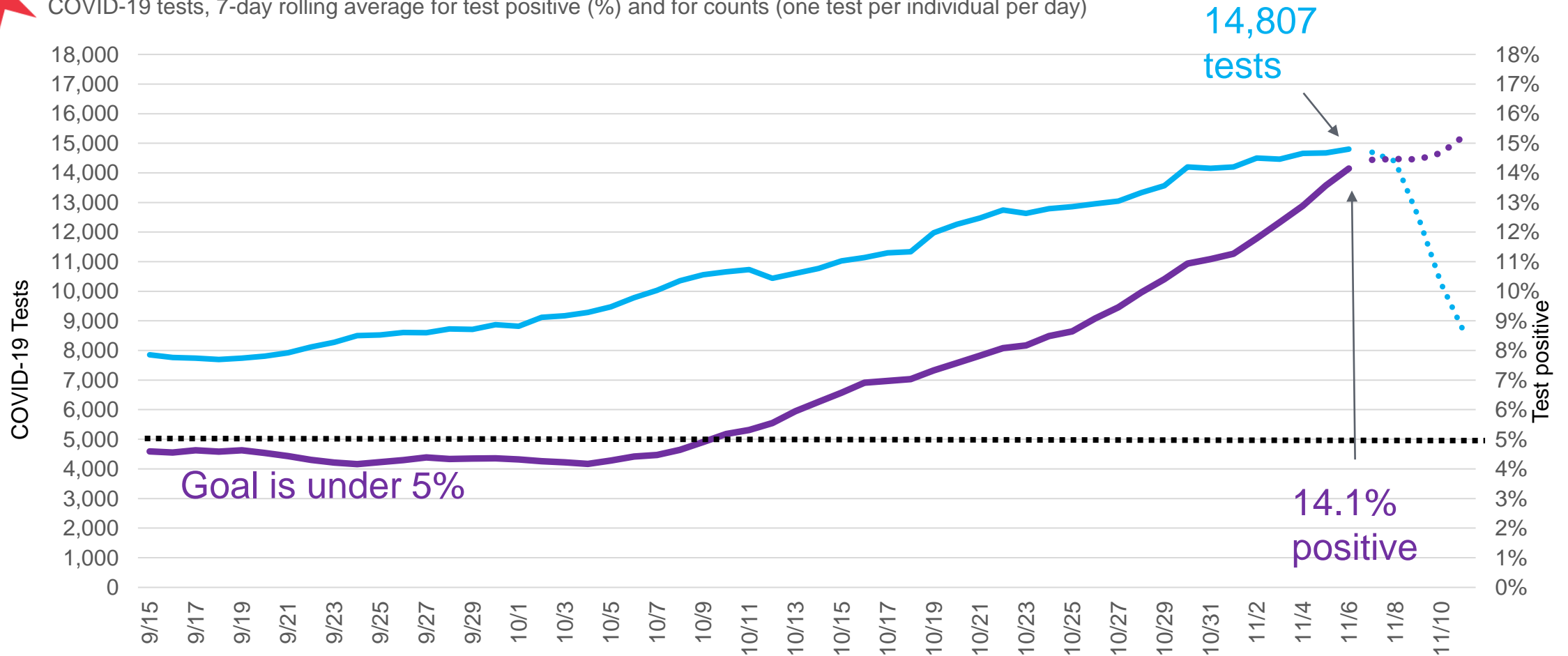


Test Positivity

Test positivity is 14.1%. Even though testing is at an all-time high and rising fastest ever, percent positivity is rising faster.

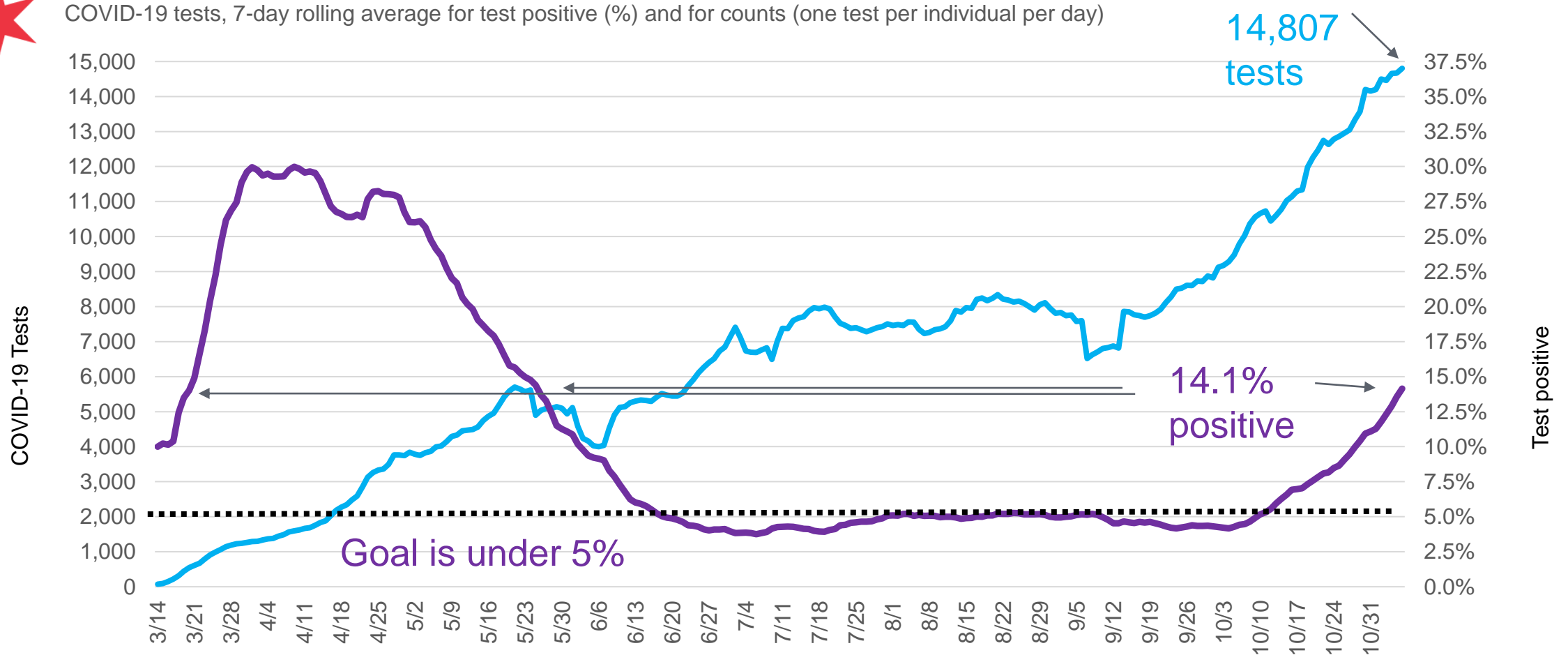


COVID-19 tests, 7-day rolling average for test positive (%) and for counts (one test per individual per day)



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).



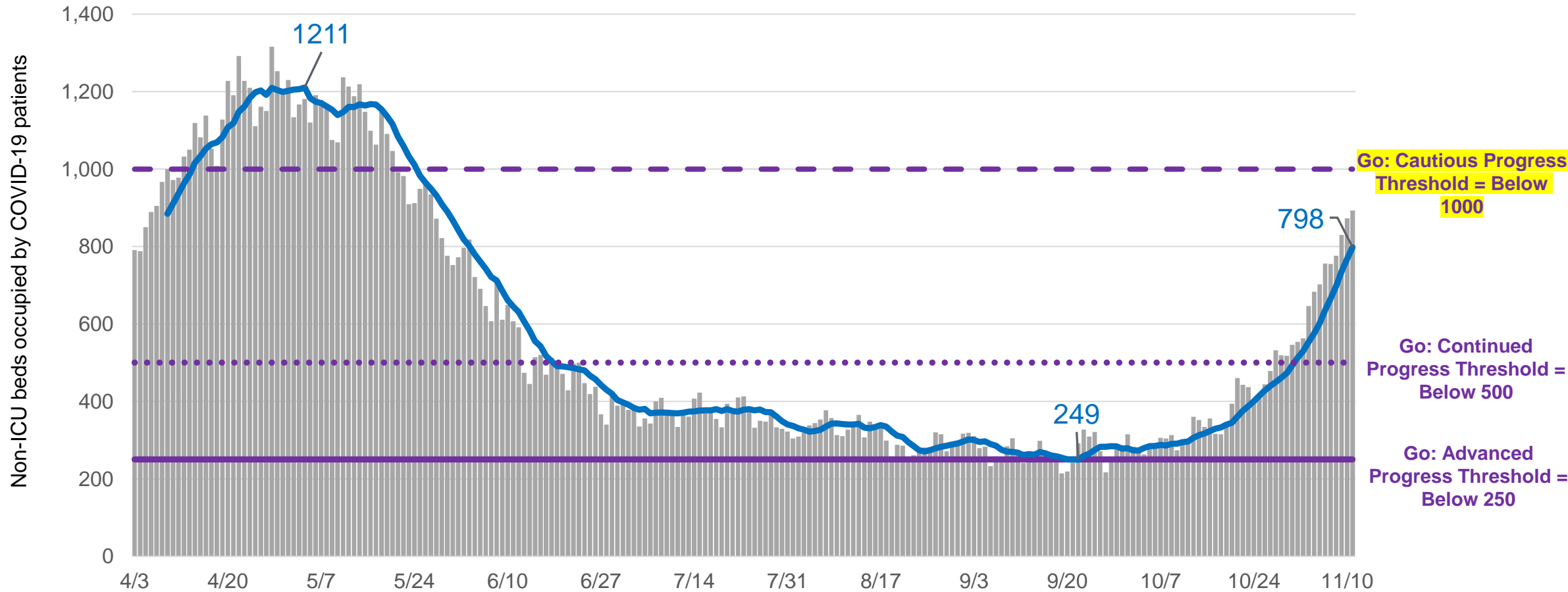
Hospital System Capacity

Non-ICU bed occupancy from COVID-19 has increased 220% since its lowest point on 9/22; Go: Cautious Progress.



COVID-19 acute/non-ICU beds occupied, daily counts, 7 day average and reopening threshold, daily occupancy census (04/03/2020-11/11/2020)

Peak 7-day rolling average	1211 avg. occupied non-ICU beds 5/4/2020
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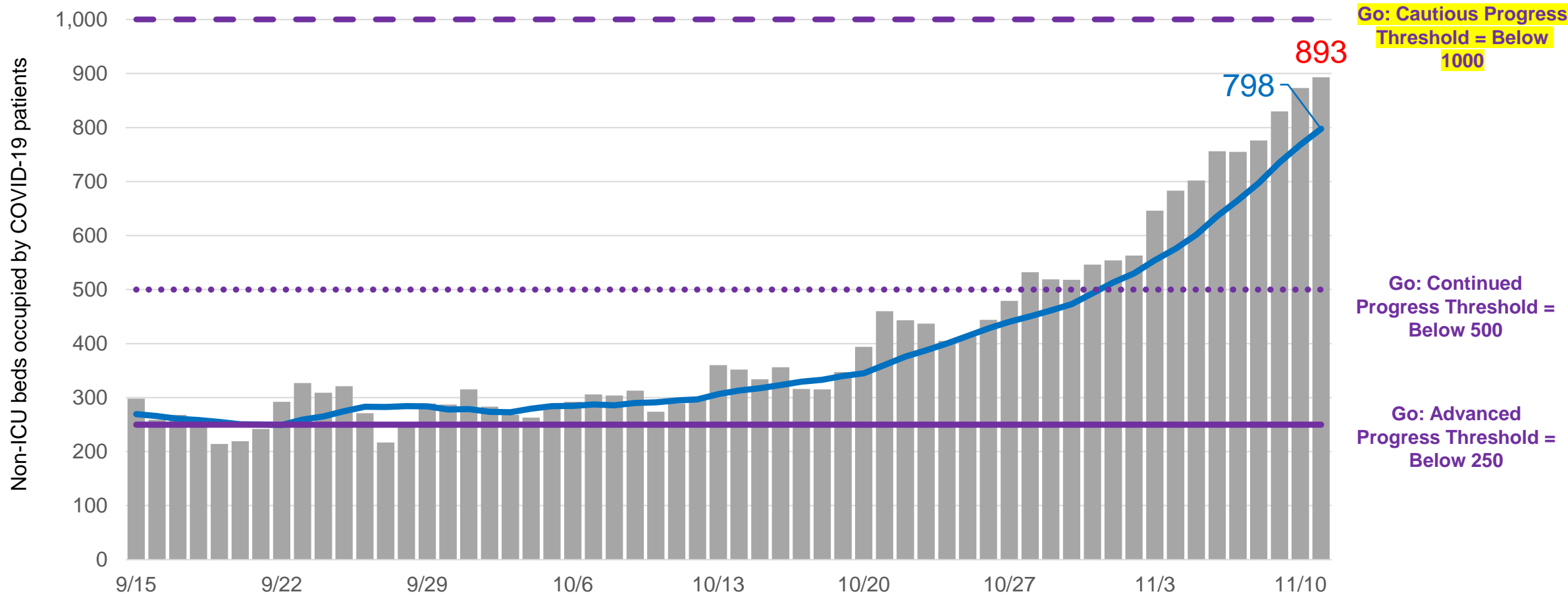
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning April 3 (acute non-ICU occupancy). Acute non-ICU bed counts include burn, emergency department, med/surg, other, pediatrics and psychiatry beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases.

Non-ICU bed occupancy from COVID-19 is increasing at an average of net +24 non-ICU admissions per day; **Go: Cautious Progress.**



COVID-19 acute/non-ICU beds occupied, daily counts, 7 day average and reopening threshold, daily occupancy census (9/15/2020-11/11/2020)

Peak 7-day rolling average	1211 avg. occupied non-ICU beds 5/4/2020
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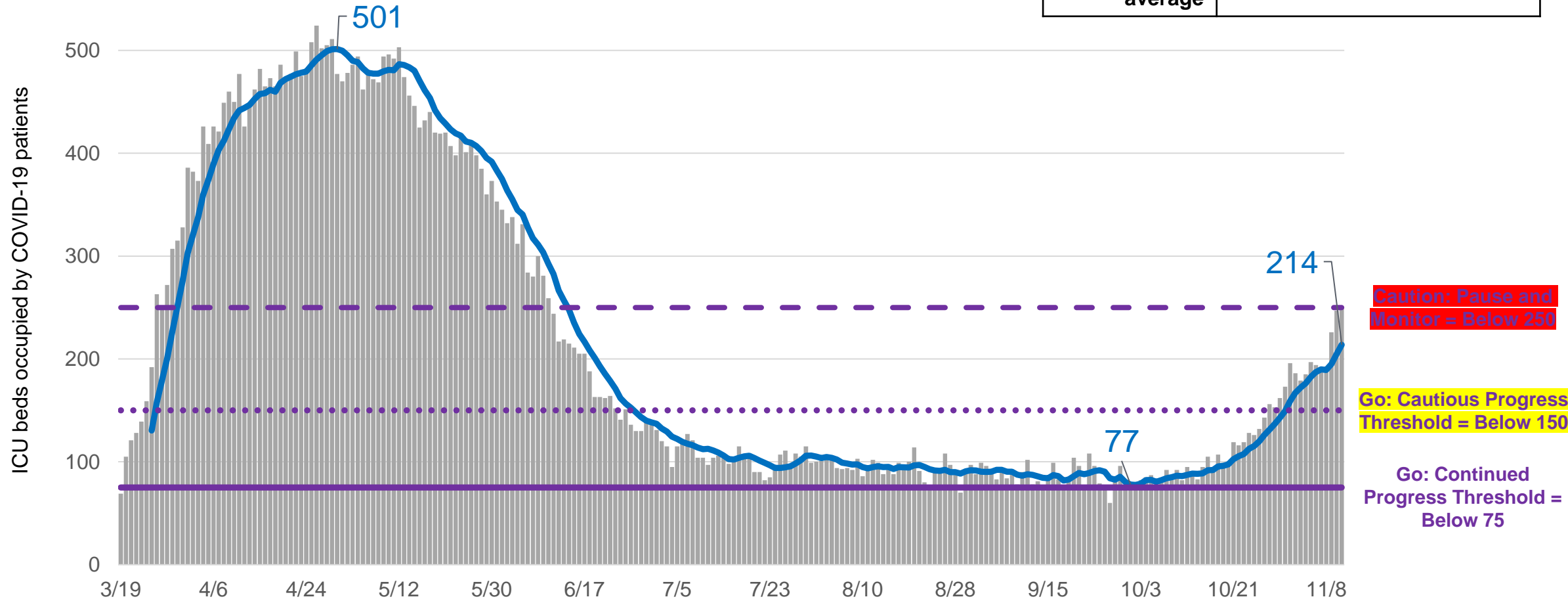
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning April 3 (acute non-ICU occupancy). Acute non-ICU bed counts include burn, emergency department, med/surg, other, pediatrics and psychiatry beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases.

ICU occupancy from COVID-19 has increased 177% since its lowest point on 10/1; Caution: Pause and Monitor



COVID-19 ICU beds occupied, daily counts, 7 day average and progress threshold, daily occupancy census (03/13/2020 - 11/11/2020)

Peak 7-day rolling average	501 avg. occupied ICU beds 4/30/2020
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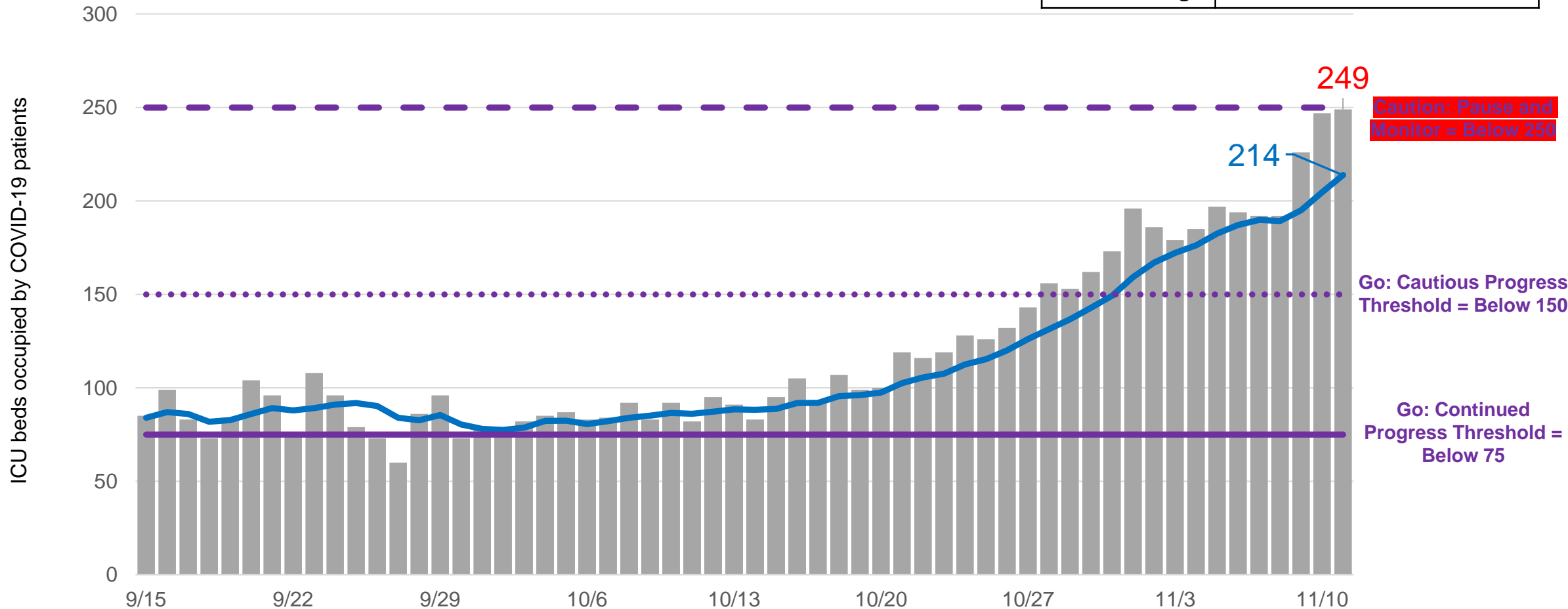
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, the definition of ICU status changed as requested by HHS.

ICU occupancy from COVID-19 is increasing at an average rate of net +6 ICU admissions per day; **Caution: Pause and Monitor**



COVID-19 ICU beds occupied, daily counts, 7 day average and progress threshold, daily occupancy census (09/15/2020 - 11/11/2020)

Peak 7-day rolling average	501 avg. occupied ICU beds 4/30/2020
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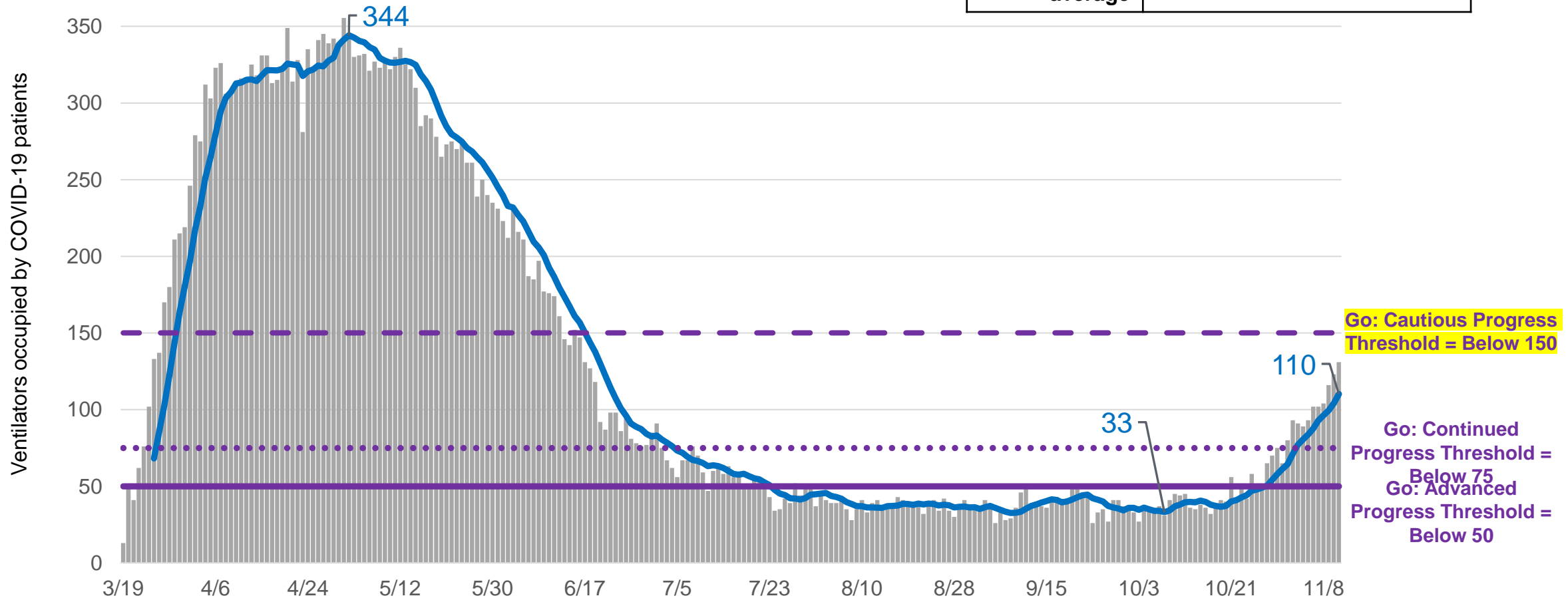
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Ventilator utilization from COVID-19 has increased 233% since its lowest point on 10/8; Go: Cautious Progress.



COVID-19 ventilators in use, daily counts, 7 day average and reopening threshold, daily utilization census (3/19/2020-11/11/2020)

Peak 7-day rolling average	344 avg. ventilators in use 5/2/2020
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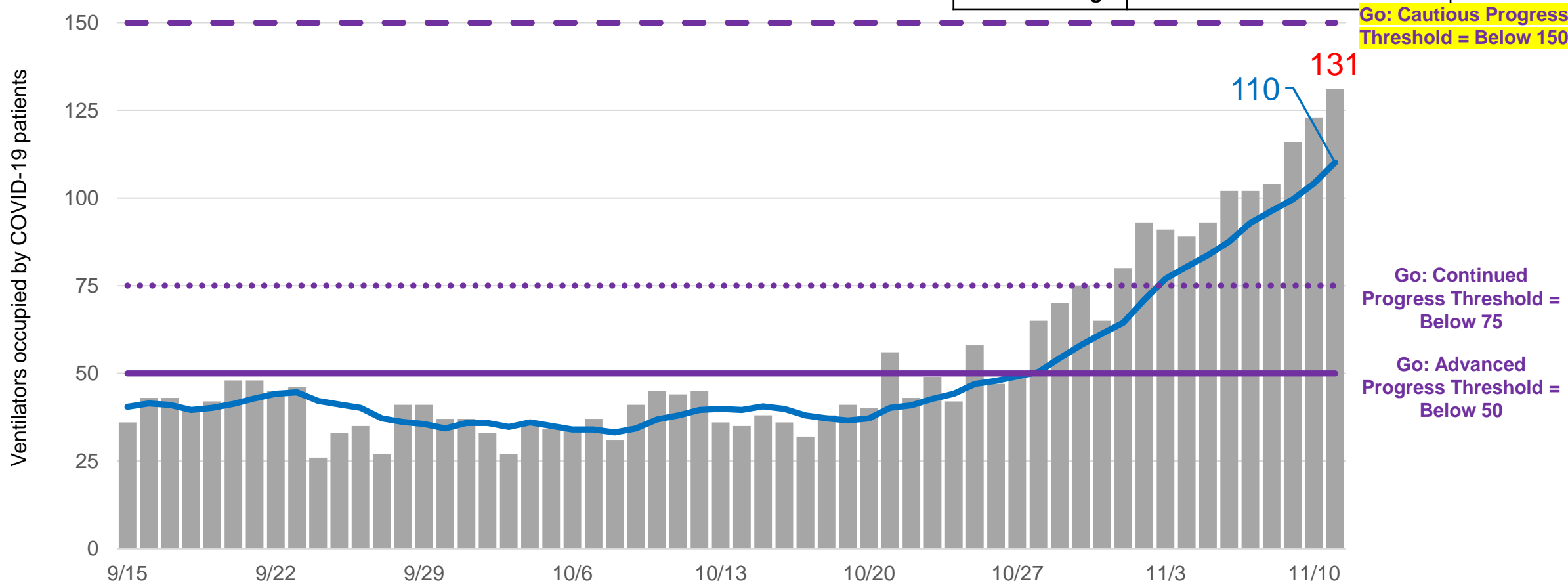
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, ventilator counts include all full-functioning mechanical ventilators, BiPAP, anesthesia machines and portable/transport ventilators.

Ventilator utilization from COVID-19 is increasing at an average rate of net +4 per day; **Go: Cautious Progress.**



COVID-19 ventilators in use, daily counts, 7 day average and reopening threshold, daily utilization census (9/15/2020-11/11/2020)

Peak 7-day rolling average	344 avg. ventilators in use 5/2/2020
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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.

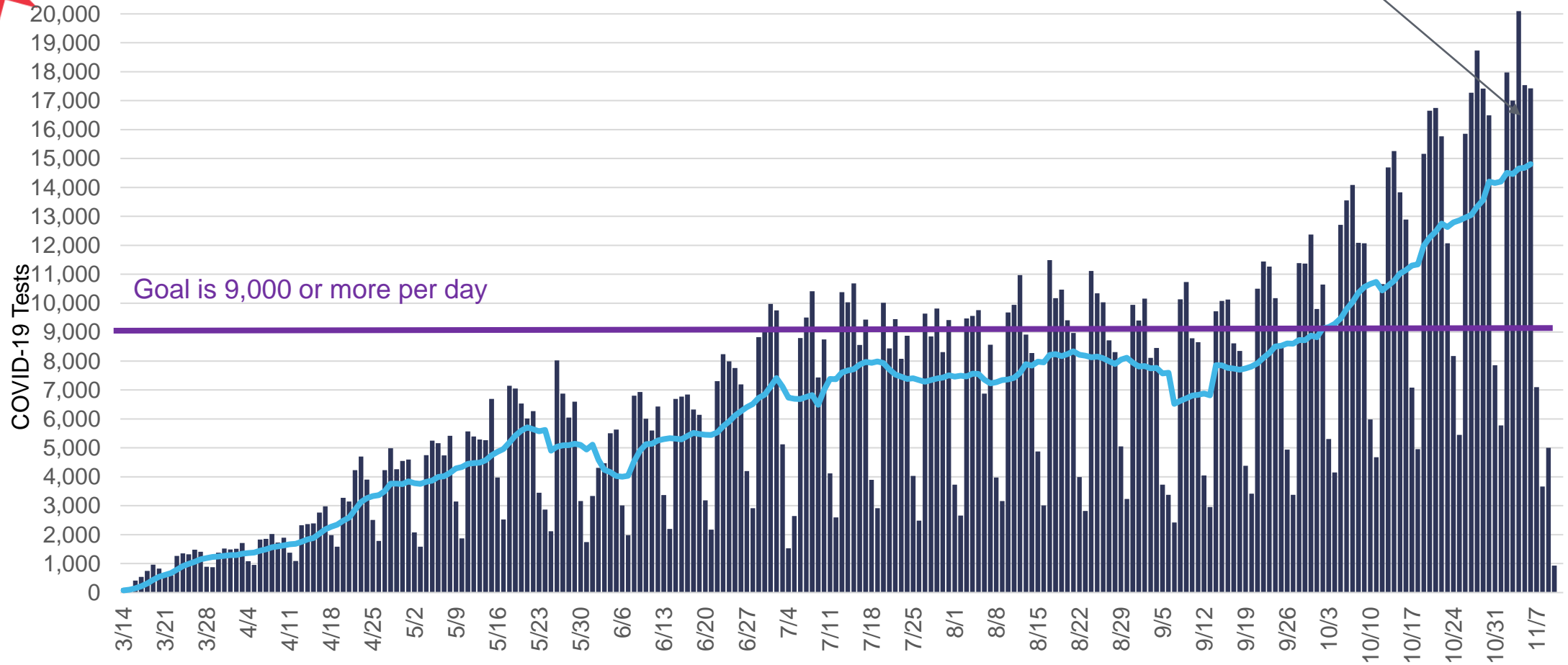


Diagnostic Testing Capacity

COVID-19 testing above 9,000 tests per day for 36 straight days. Now at all time high.



COVID-19 tests, daily count and 7-day moving average, all test results, one test per individual per day



All COVID-19 tests performed on Chicago residents per day as reported by electronic lab reporting from IDPH. 9000 tests per day represents the capacity to test 5% of Chicago residents per month. Daily counts for most recent dates displayed are likely incomplete.