



Protecting Chicago: Phase IV Re-Opening Metrics Update

November 7, 2020

(Data current through 11/4/2020)

CDPH COVID-19 Phase IV starting June 26 2020 INCLUDES NEW THRESHOLDS

	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

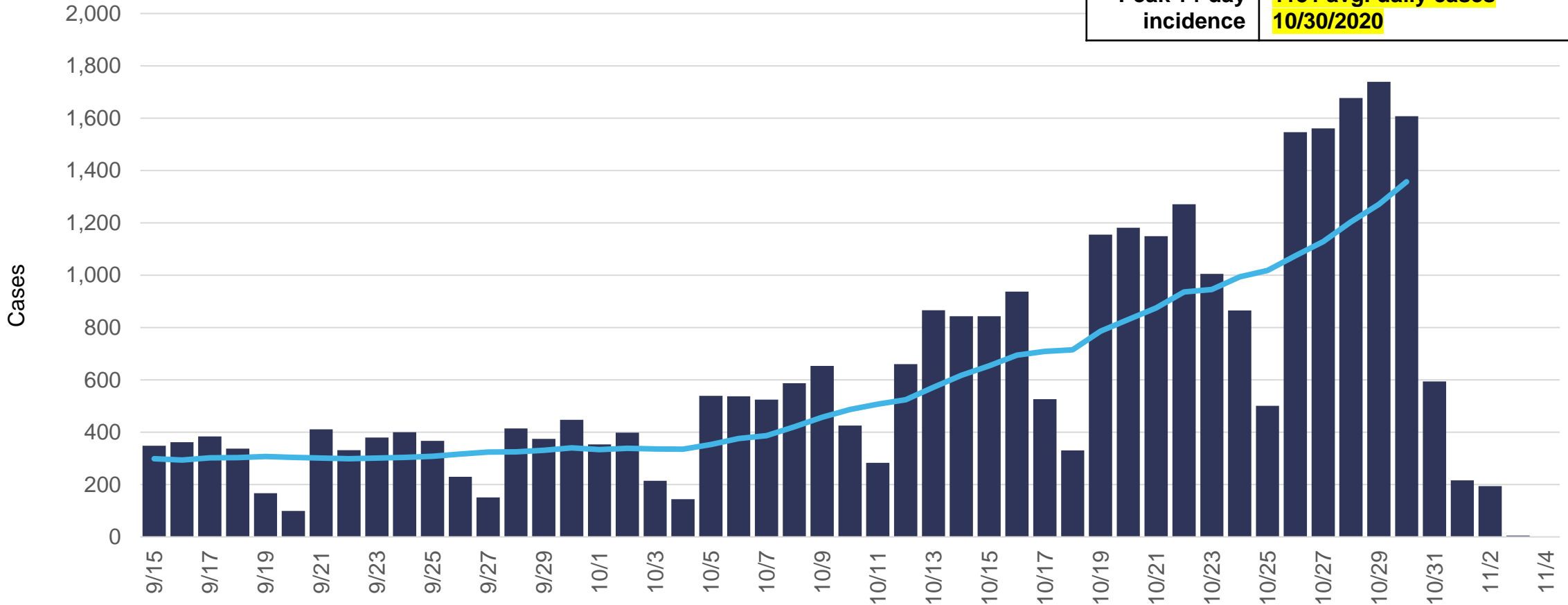


COVID-19 Confirmed Cases

COVID-19 case incidence in Chicago set new peaks for counts and speed of increase.



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



Recent Trend	Stable 3 days (10/1-10/4) Increase 11 days (10/4-10/15) 29 C/D Increase 15 days (10/15-10/30) 47 C/D
14-day Incidence	HIGH (1151 avg. daily cases*)
14-day slope	GROWTH +47.3 cases per day
Peak 14-day incidence	1151 avg. daily cases 10/30/2020

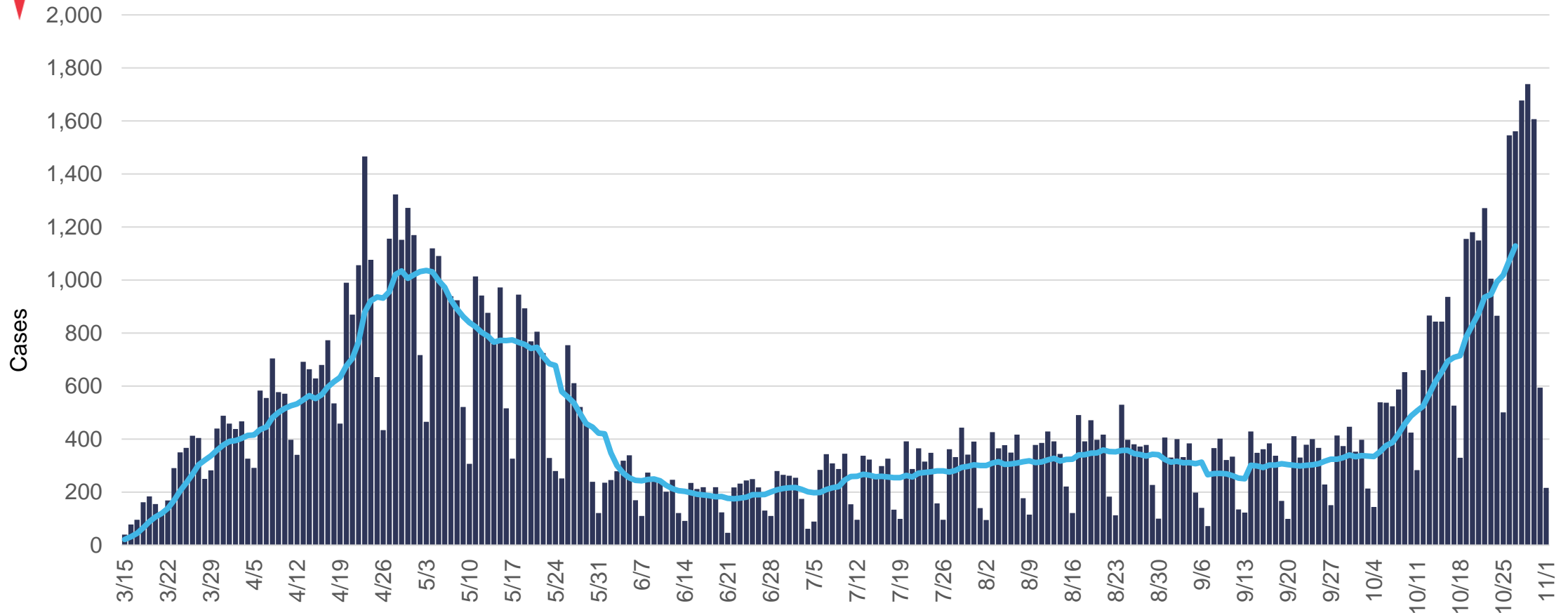
Daily COVID-19 cases with known specimen report date. *14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating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



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

Peak 7-day rolling average	1151 avg. daily cases 10/30/2020
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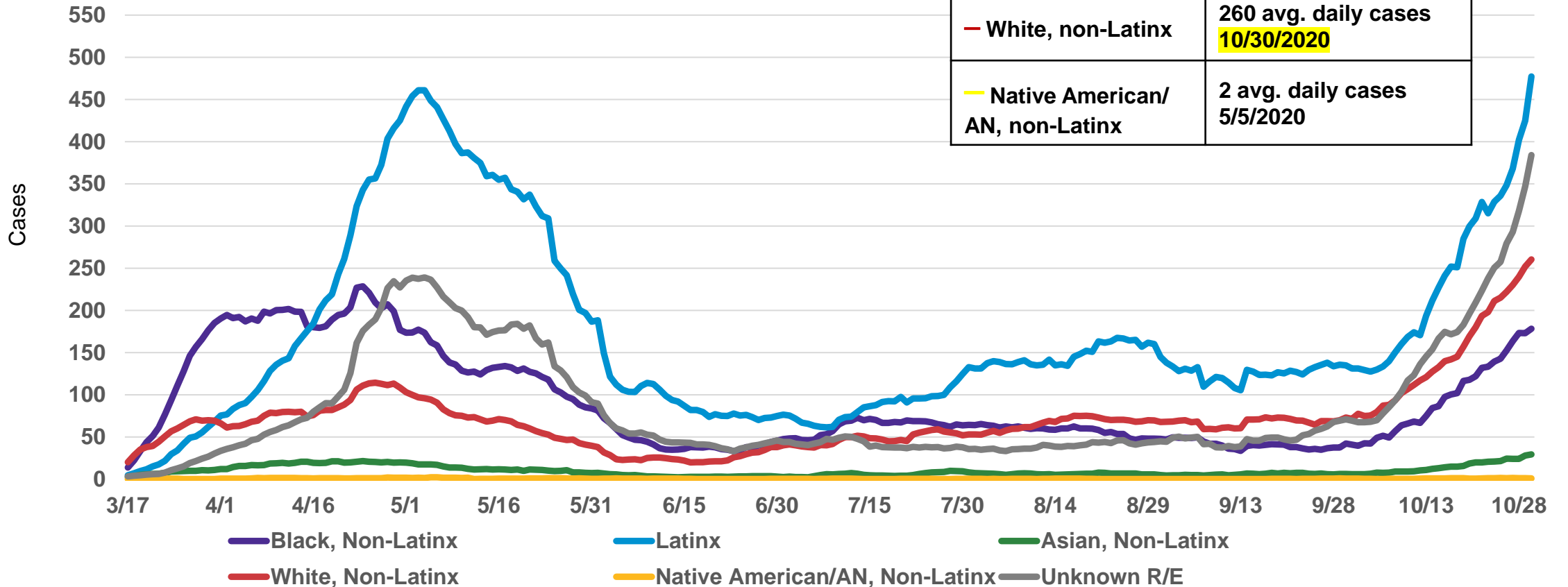


Daily COVID-19 cases with known specimen report date. *14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating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

COVID-19 cases among Chicago residents by race/ethnicity, rolling 7-day average, specimen collection date (3/17/2020-

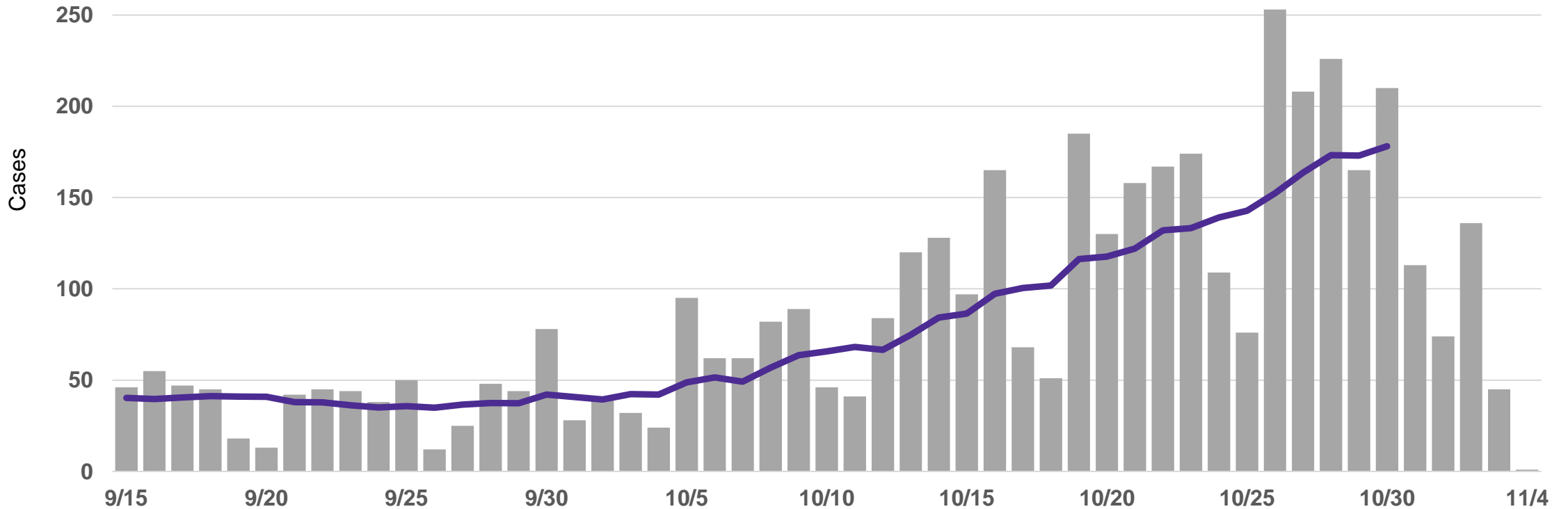




Black, non-Latinx case incidence is high and growing rapidly. Incidence has been increasing by an average of 5 cases/day for the past 29 days.

Recent Trend	Increase 29 days (10/1-10/30) 5 C/D
14-day incidence	HIGH (156 avg. daily cases*)
14-day slope	GROWTH +5.6 cases per day
Peak 14-day incidence	204 avg. daily cases 4/24/2020

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



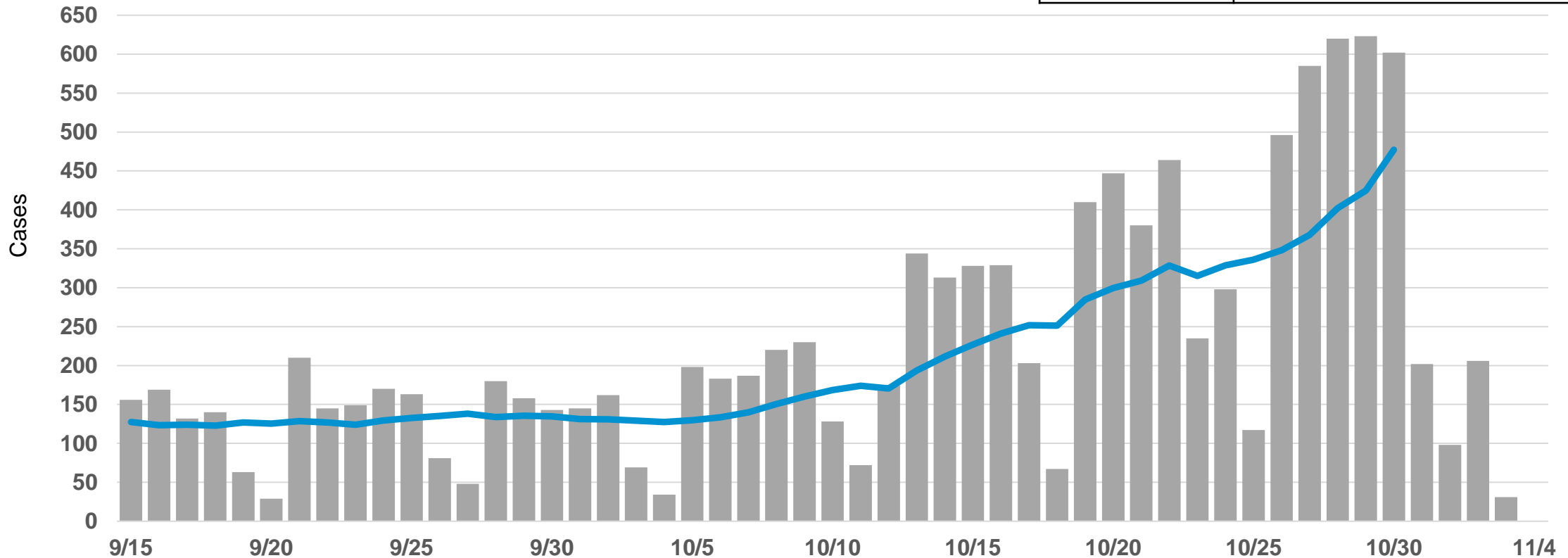
Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates 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 very high and growing. Cases have been increasing by an average of 26 cases/day for the past 4 days.



Recent Trend	Stable 5 days (10/1-10/6) Increase 15 days (10/6-10/21) 12 C/D Stable 5 days (10/21-10/26) Increase 4 days (10/26-10/30) 26 C/D
14-day incidence	HIGH (396 avg. daily cases*)
14-day slope	GROWTH +16.1 cases per day
Peak 14-day incidence	429 avg. daily cases 5/6/2020

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



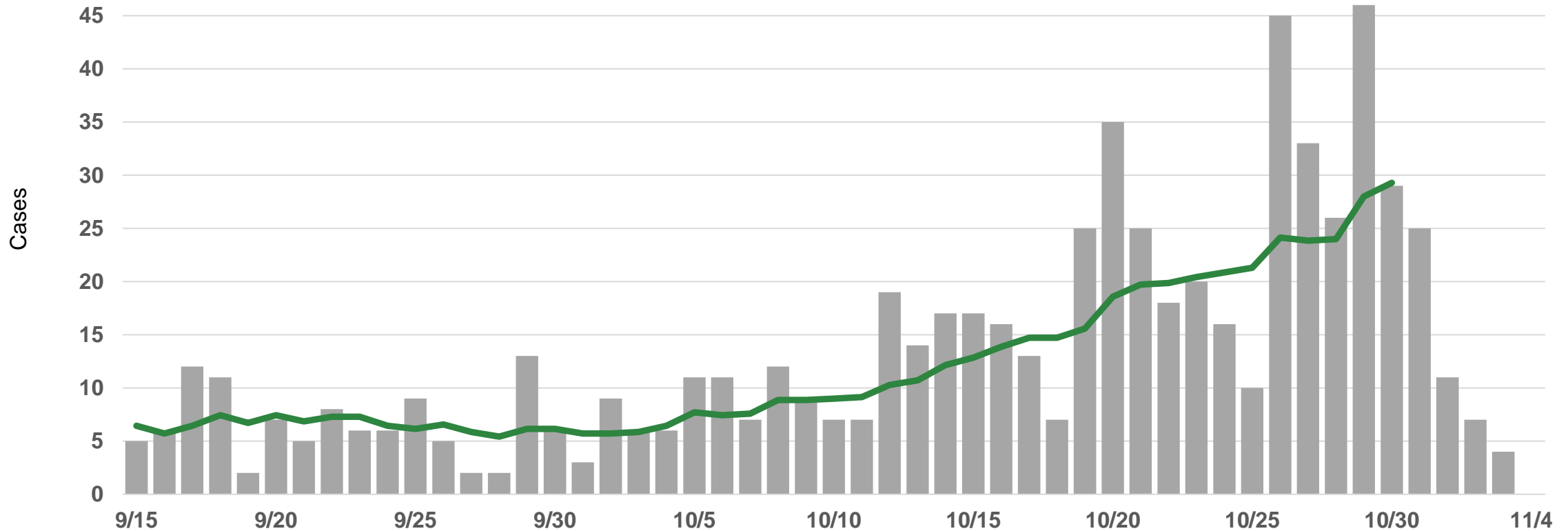
Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates 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 high and growing. Cases have been increasing by an average of 1 case/day for the past 29 days.

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

Recent Trend	Increase 29 days (10/1-10/30) 1 C/D
14-day incidence	HIGH (25 avg. daily cases*)
14-day slope	GROWTH +1 cases per day
Peak 14-day incidence	25 avg. daily cases 10/30/2020

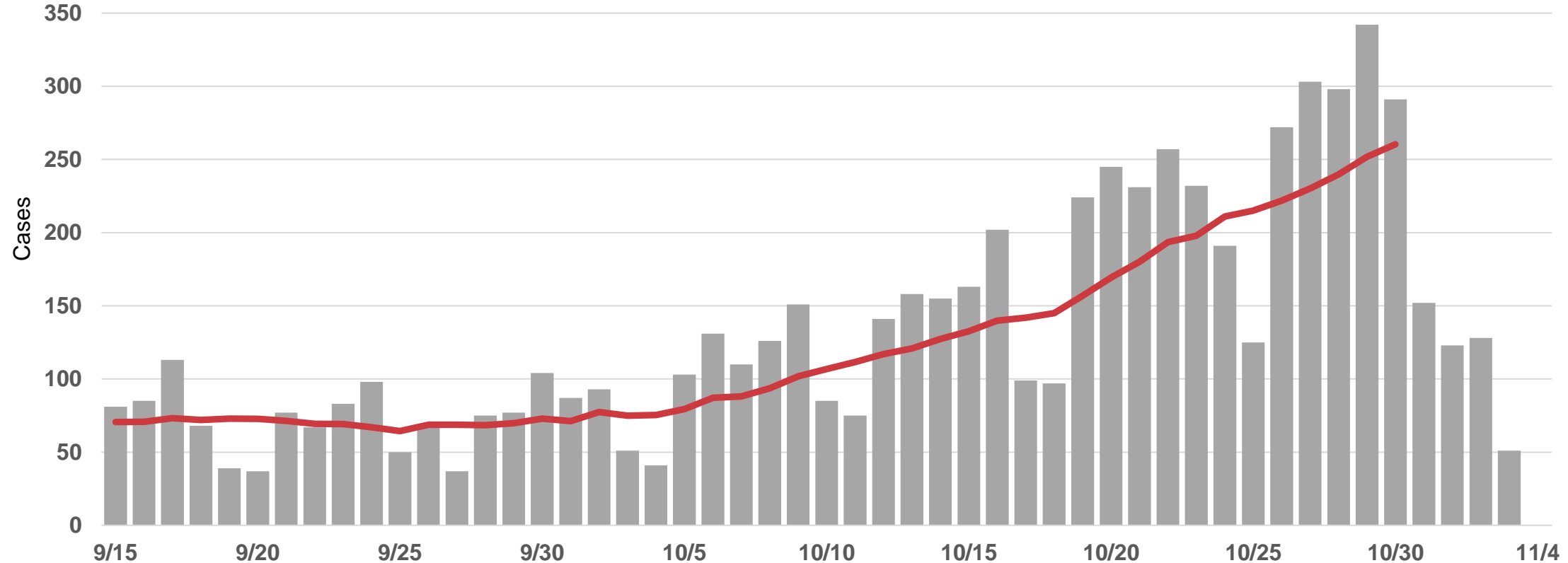


Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates 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); 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 high and growing rapidly. Cases have been increasing by an average of 7 cases/per day for 26 days.

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



Recent Trend	Stable 3 days (10/1-10/4) Increase 26 days (10/4-10/30) 7 C/D
14-day incidence	HIGH (229 avg. daily cases*)
14-day slope	GROWTH +8.5 cases per day
Peak 14-day incidence	229 avg. daily cases 10/30/2020

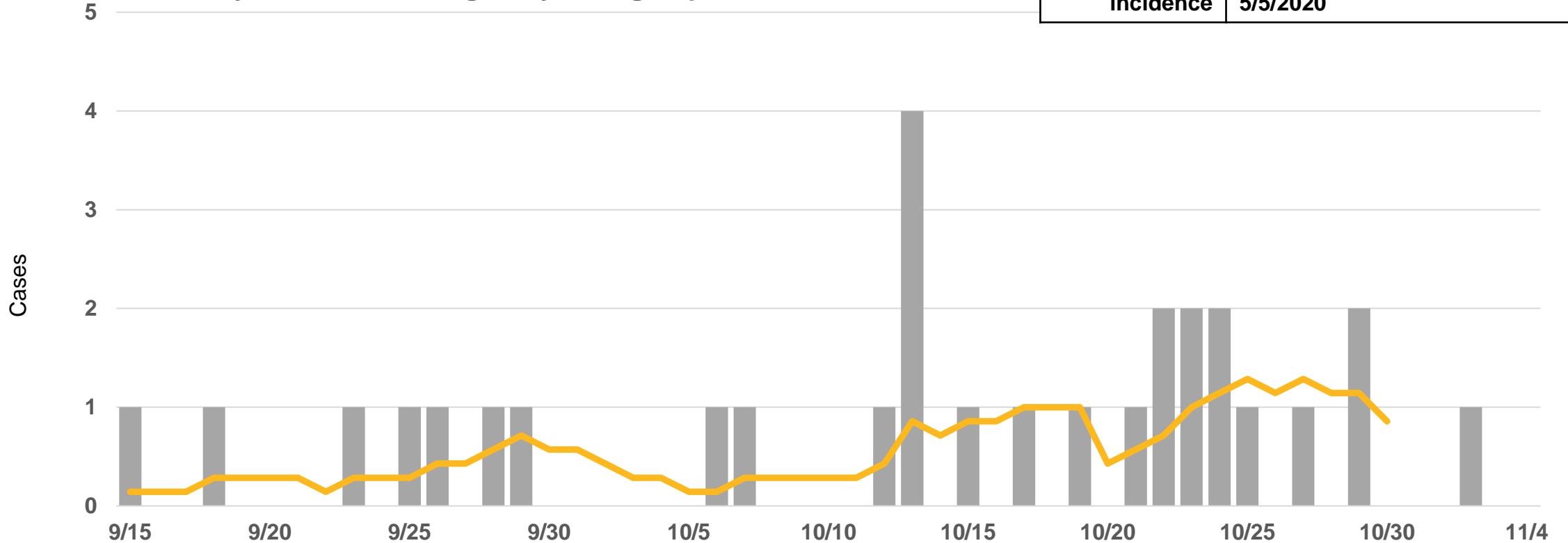
Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates 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); MODERATE (26-50); MODERATELY HIGH (51-99); HIGH (100+) and presented as corresponding daily counts color-coded to gating category.

Native American/Alaska Native, non-Latinx case incidence is low and stable.



COVID-19 cases among Native American/Alaska Native, non-Latinx residents, daily counts and rolling 7-day average, specimen collection date

Recent Trend	Cases at low incidence for >28 days. 118 cumulative cases.
14-day incidence	1 avg. daily cases*
14-day slope	+0.0 cases per day
Peak 14-day incidence	2 avg. daily cases 5/5/2020



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. Due to the citywide population size of 8,086, gating ranks are not applied here.

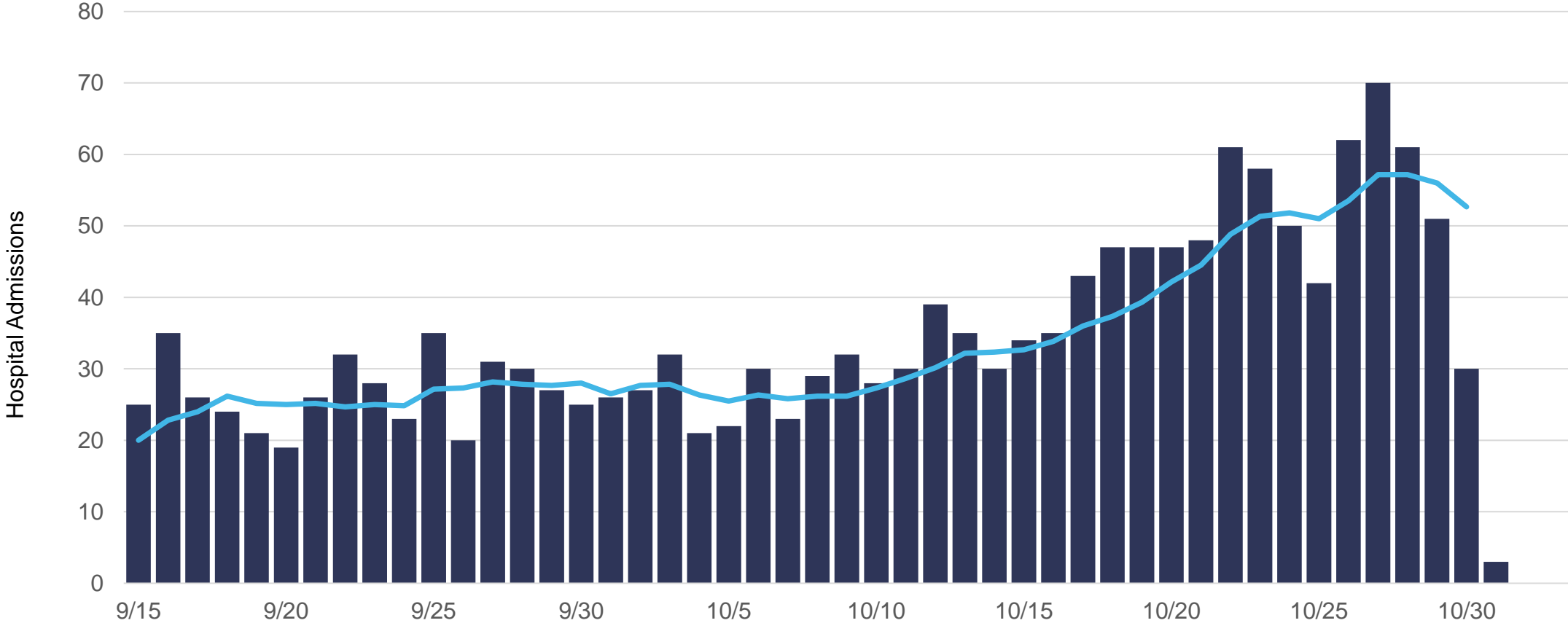


COVID-19 Severe Outcomes

Daily COVID-19 hospital admission has doubled over 3 weeks.

Recent Trend	
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

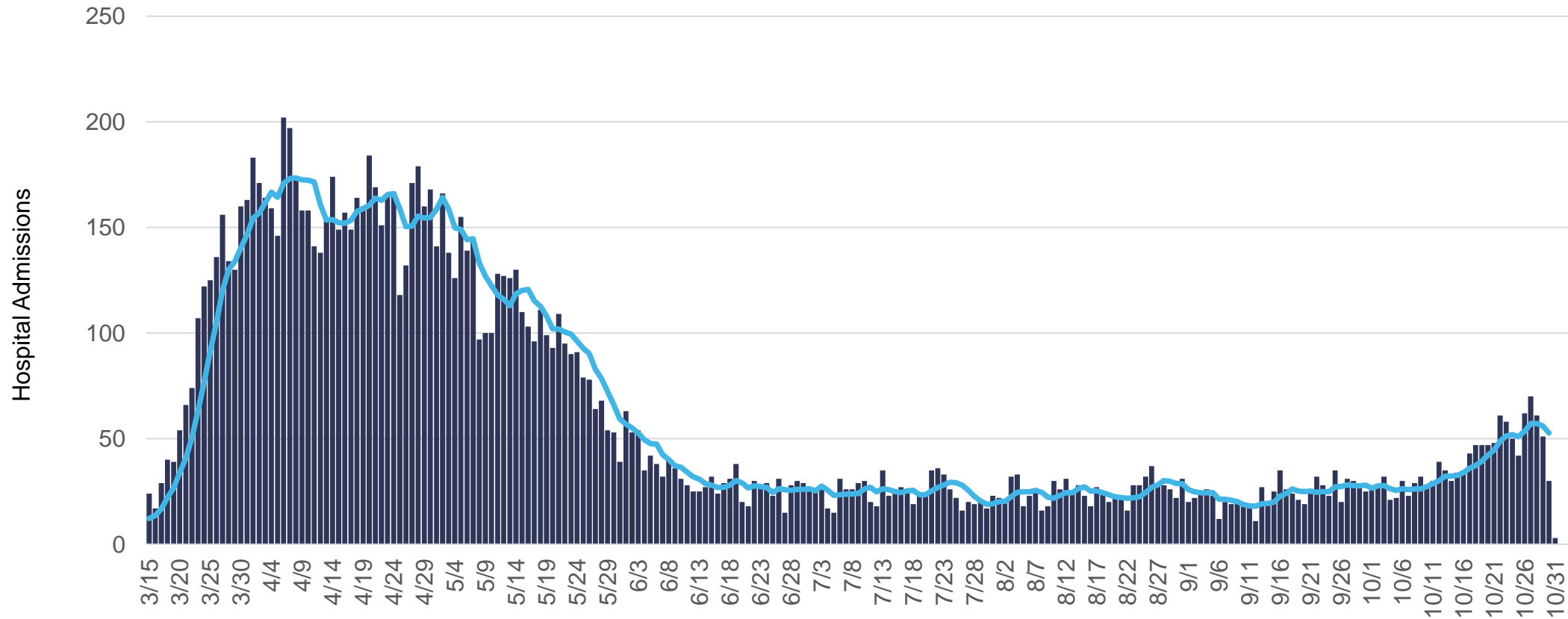


Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to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

Peak 7-day rolling average	173 avg. daily admissions 4/12/2020
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COVID-19 Hospital admissions, daily counts and rolling 7-day average, first known hospital admit date

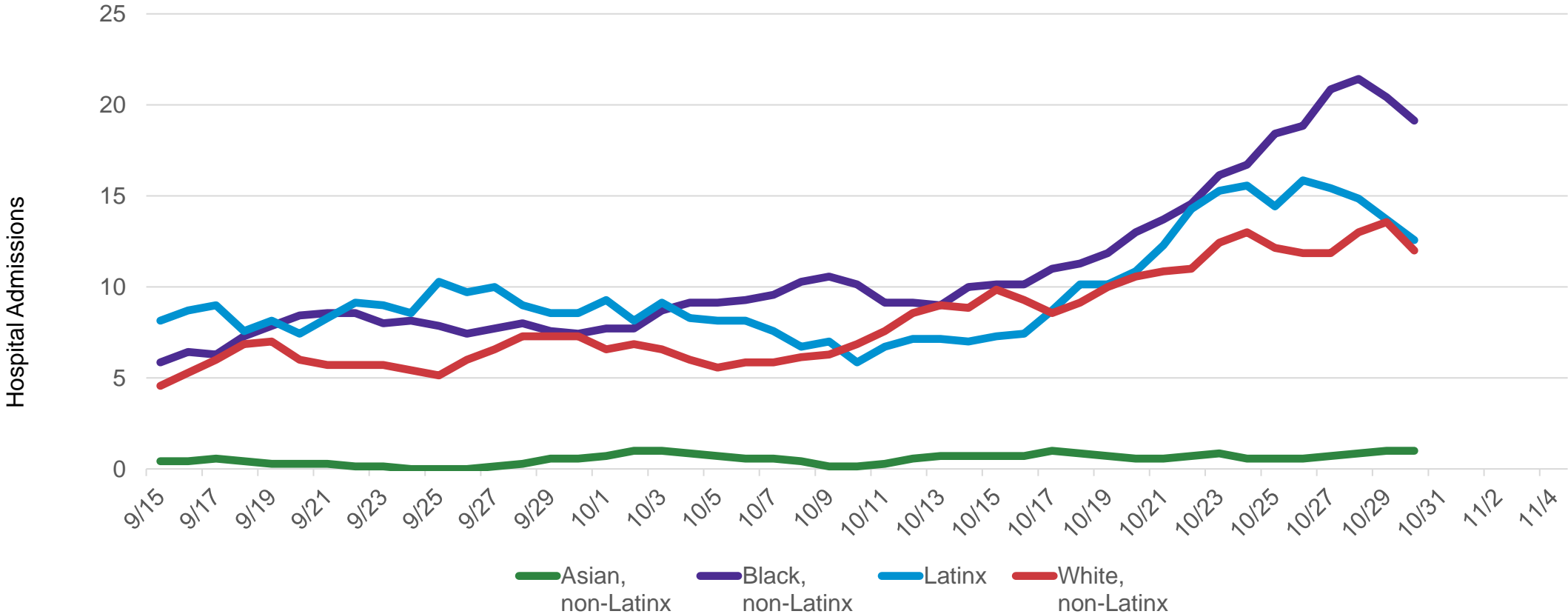


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Daily COVID-19 hospital admissions by race/ethnicity. Hospitalizations are rising for every group.



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

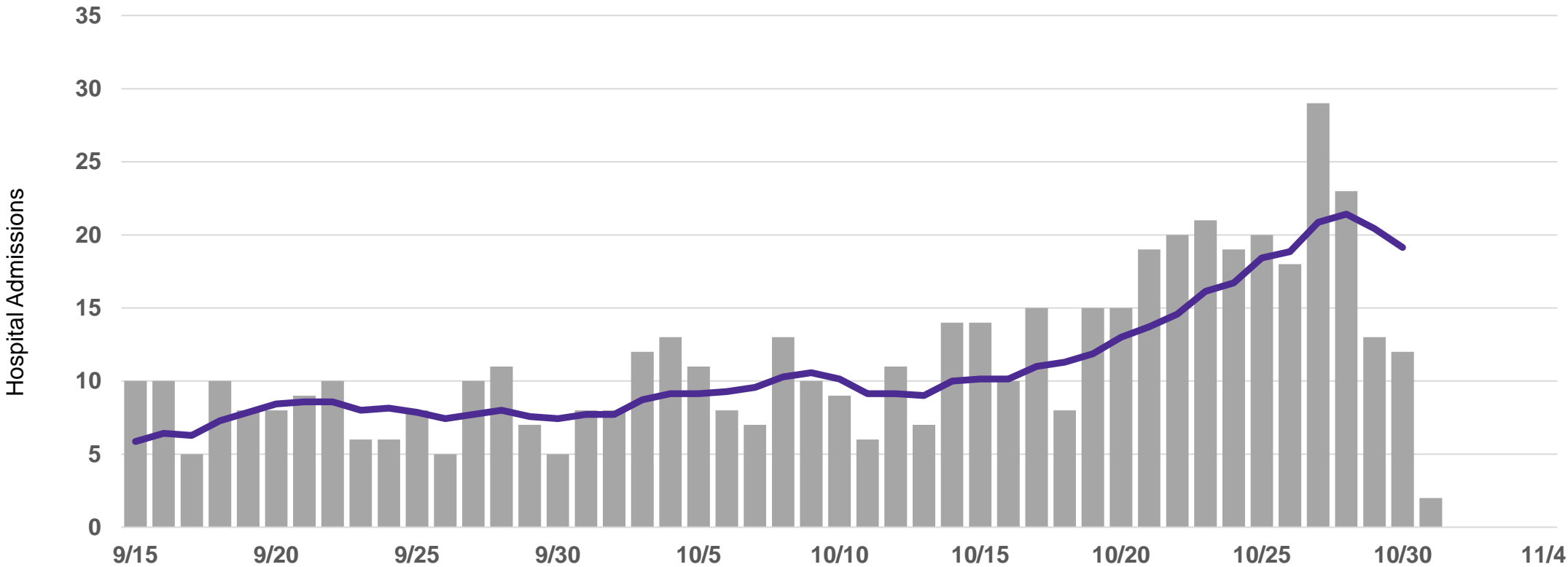


Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to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

Black, non-Latinx hospital admission are rising.

Recent Trend	Admissions doubled since 10/13
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



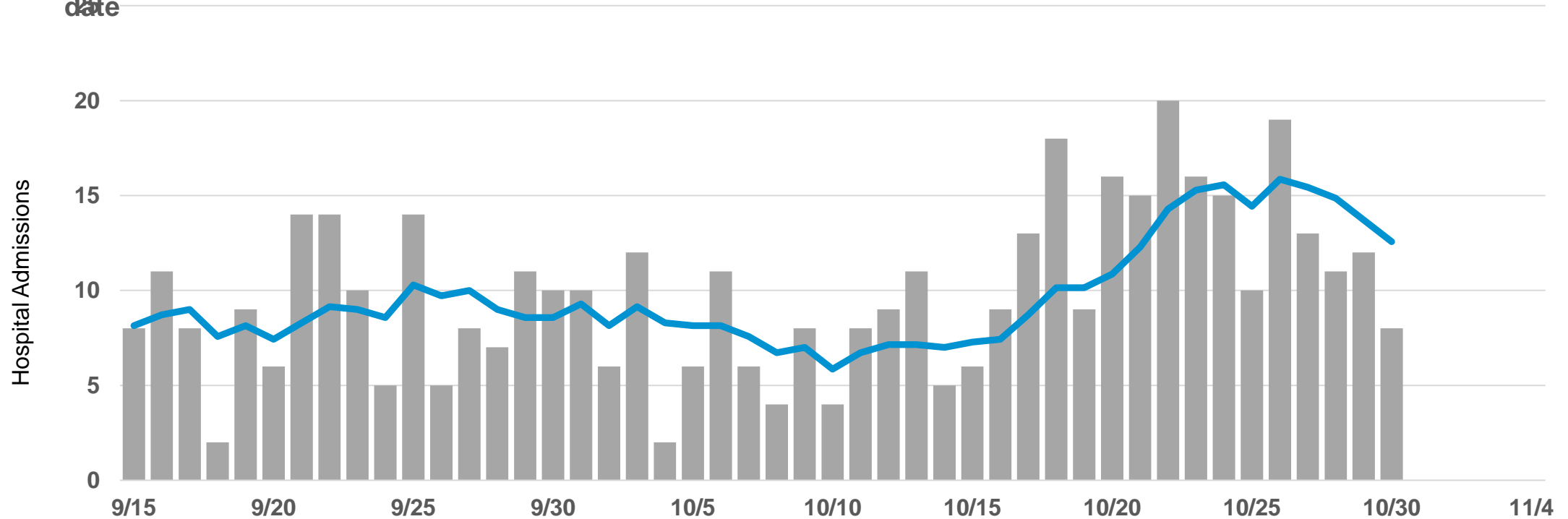
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Latinx hospital admissions are rising.



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

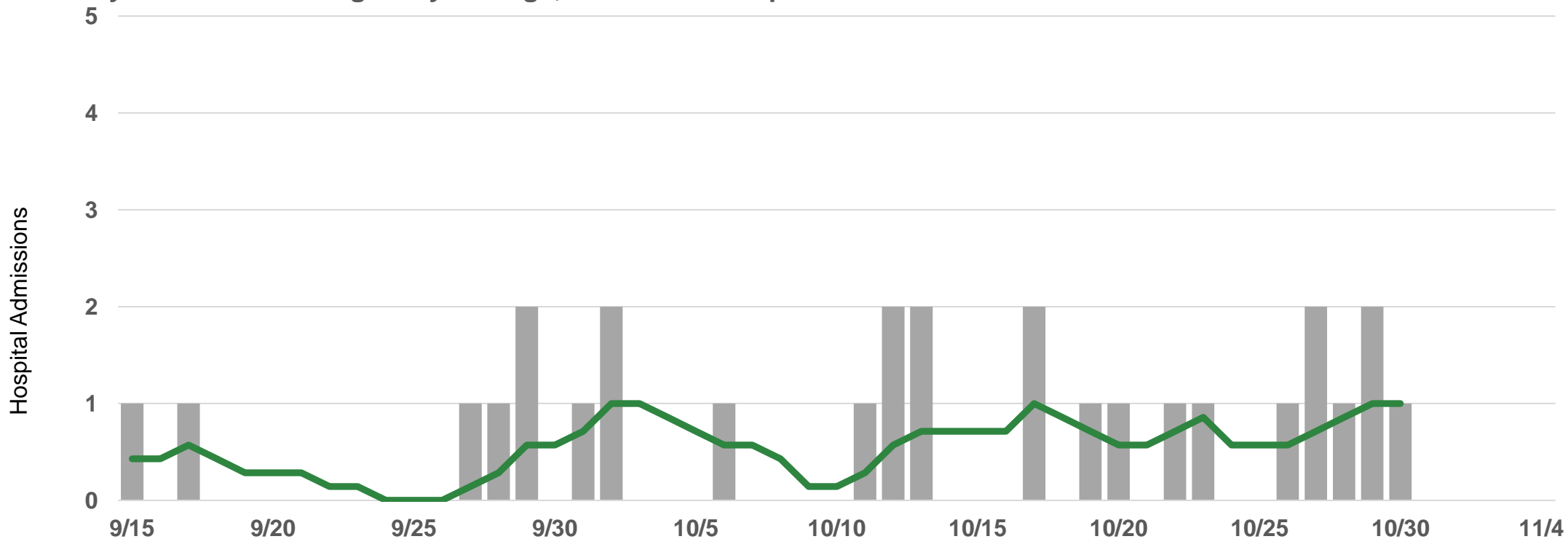


Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to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

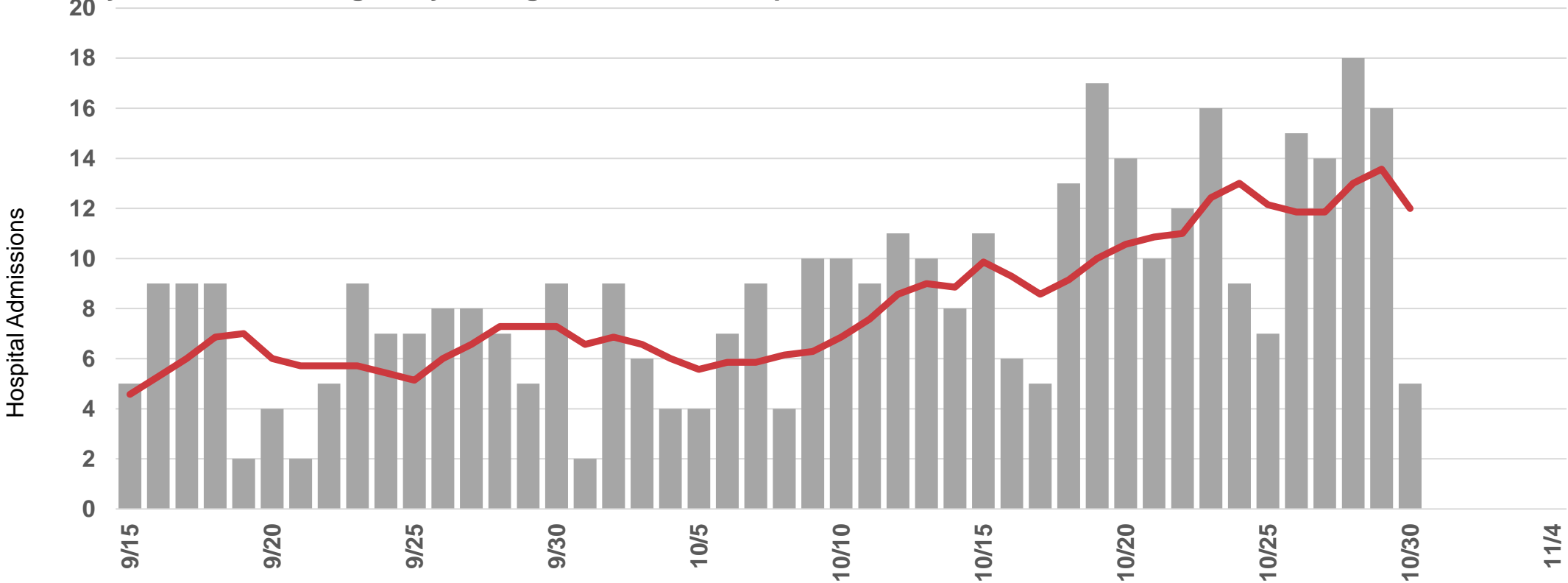


Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to 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	<i>Admissions doubled since 10/5</i>
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

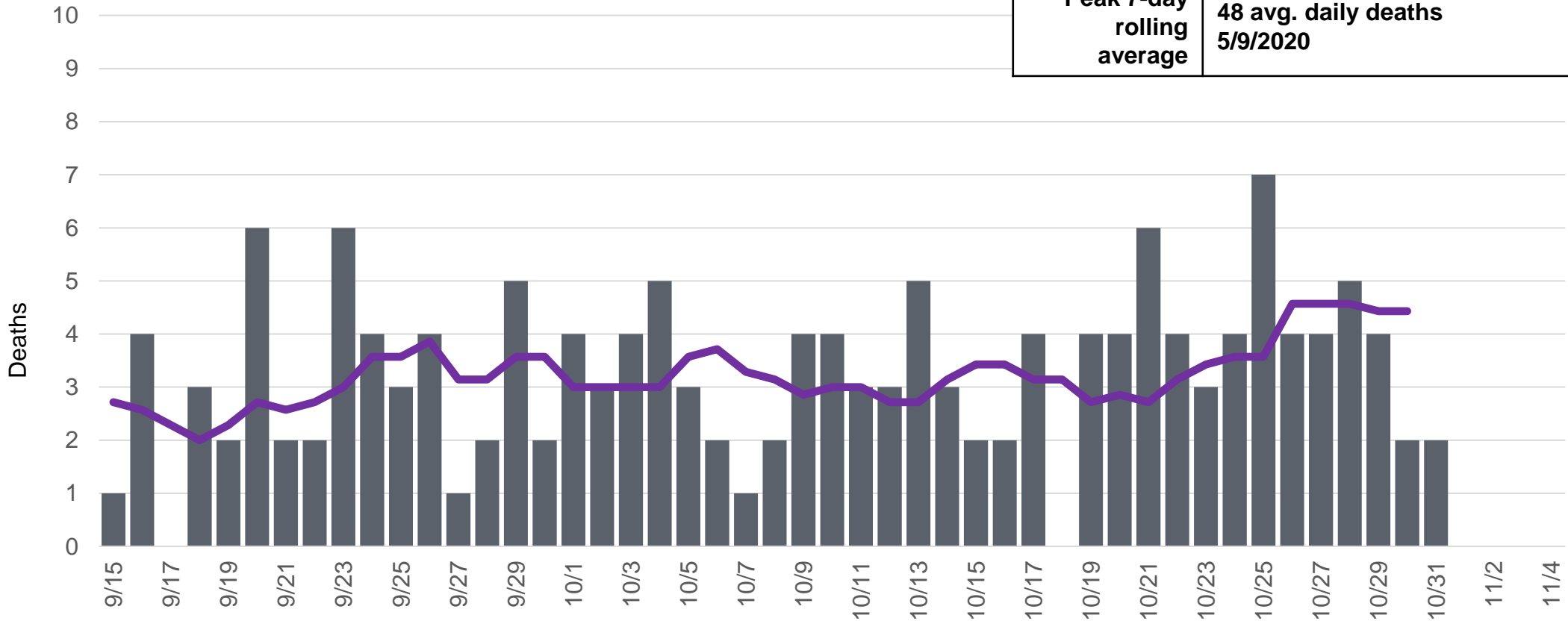


Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to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

COVID-19 deaths have risen above 4 per day.



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



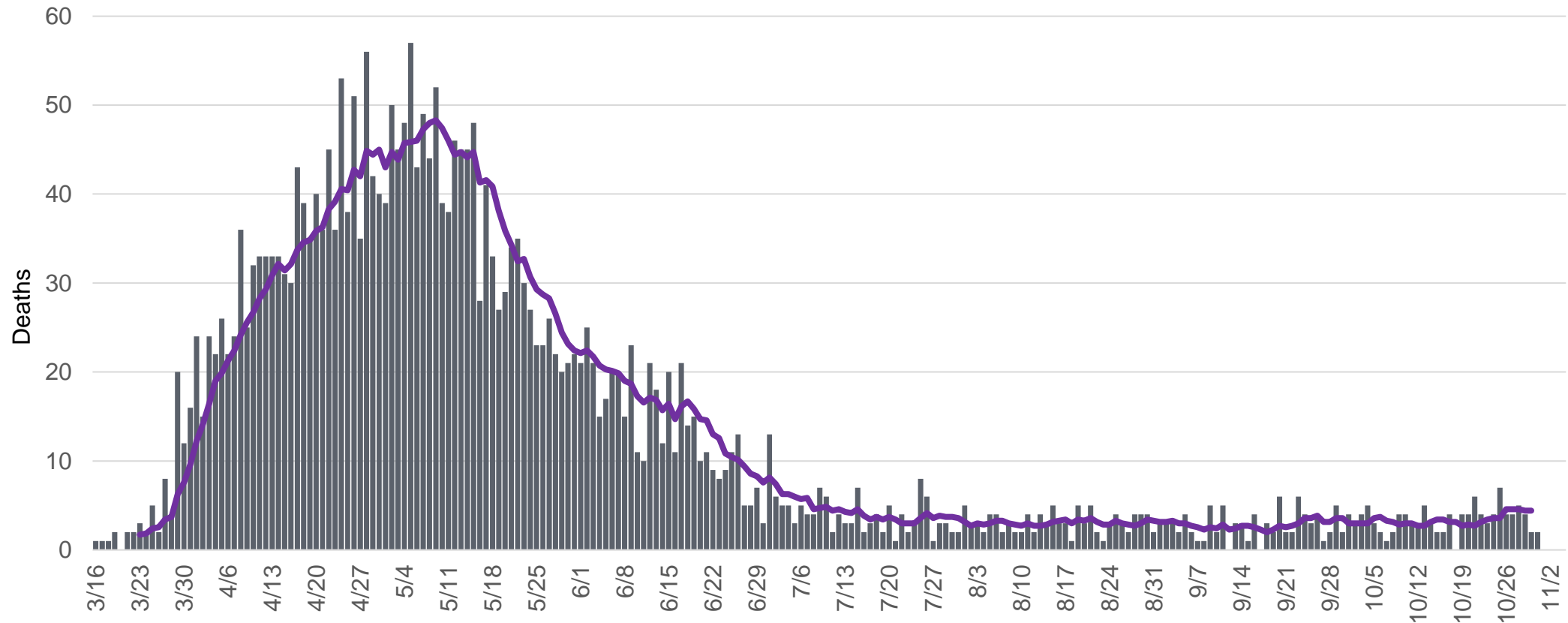
Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. Daily counts for most recent dates displayed are likely incomplete.

COVID-19 deaths are 10X fewer now when compared to the peak in May.



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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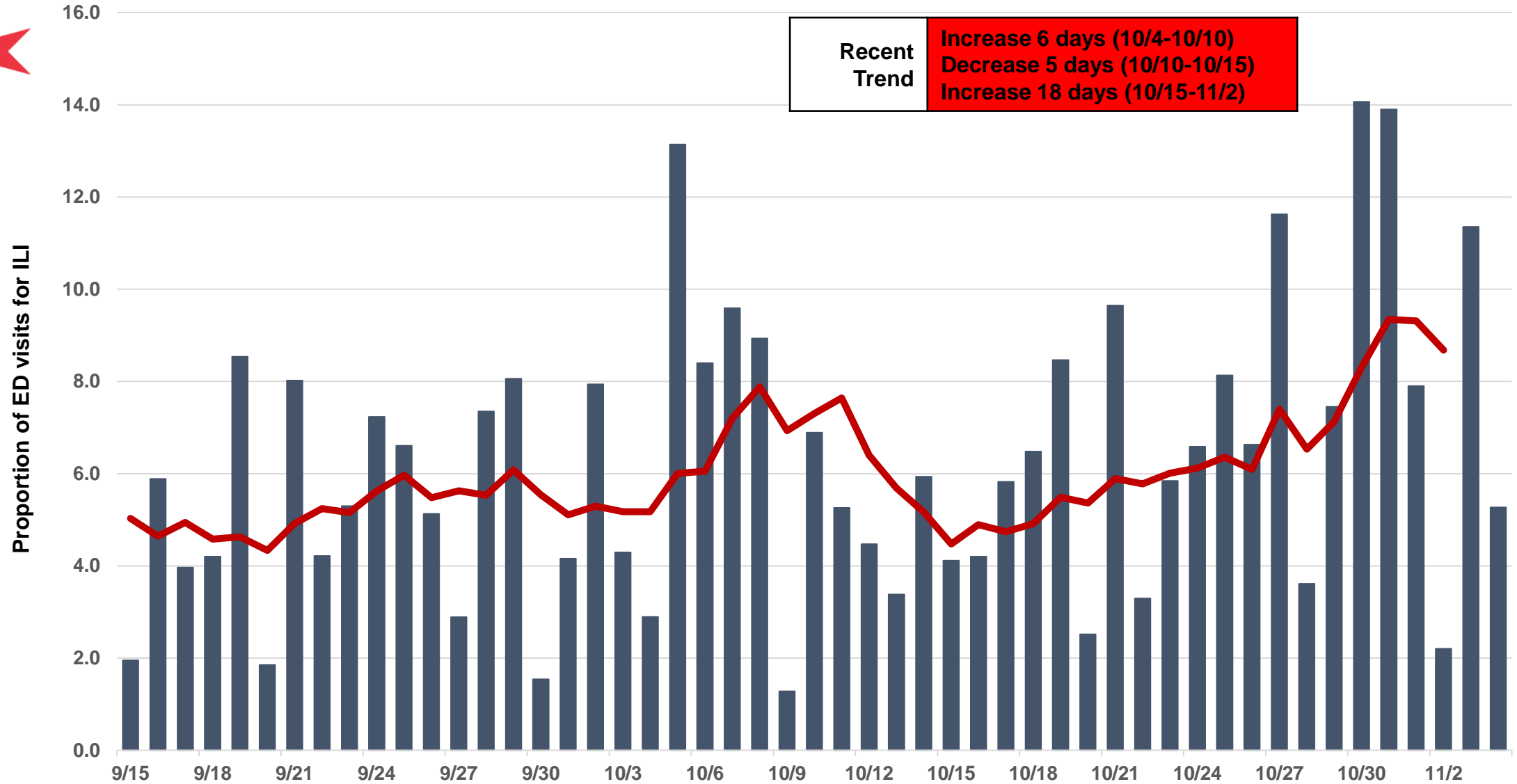


Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. Daily counts for most recent dates displayed are likely incomplete.



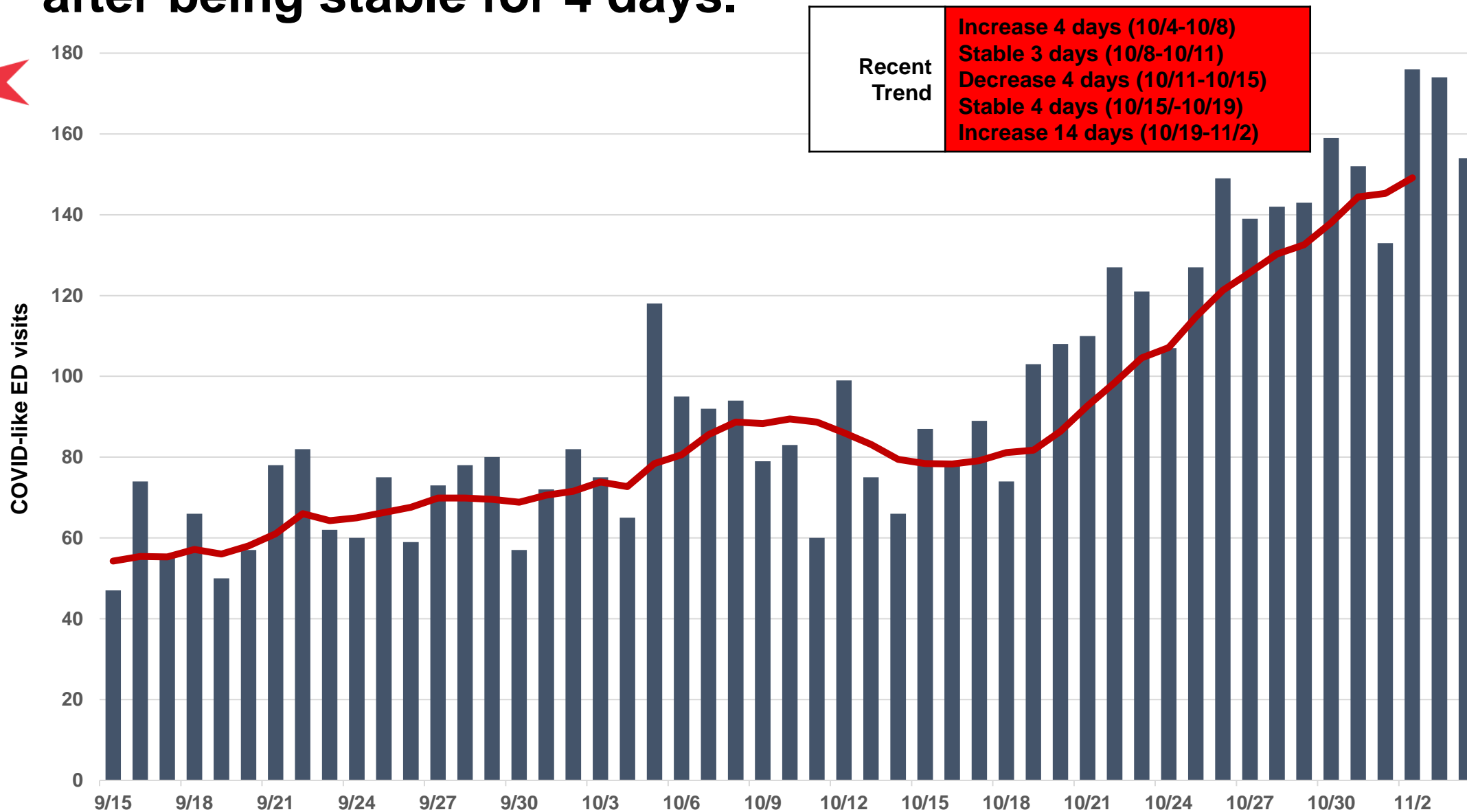
Emergency Department Visits

Proportion of ED visits for influenza-like illnesses has increasing for 18 days after decreasing for 5 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 has been increasing 14 days after being stable for 4 days.

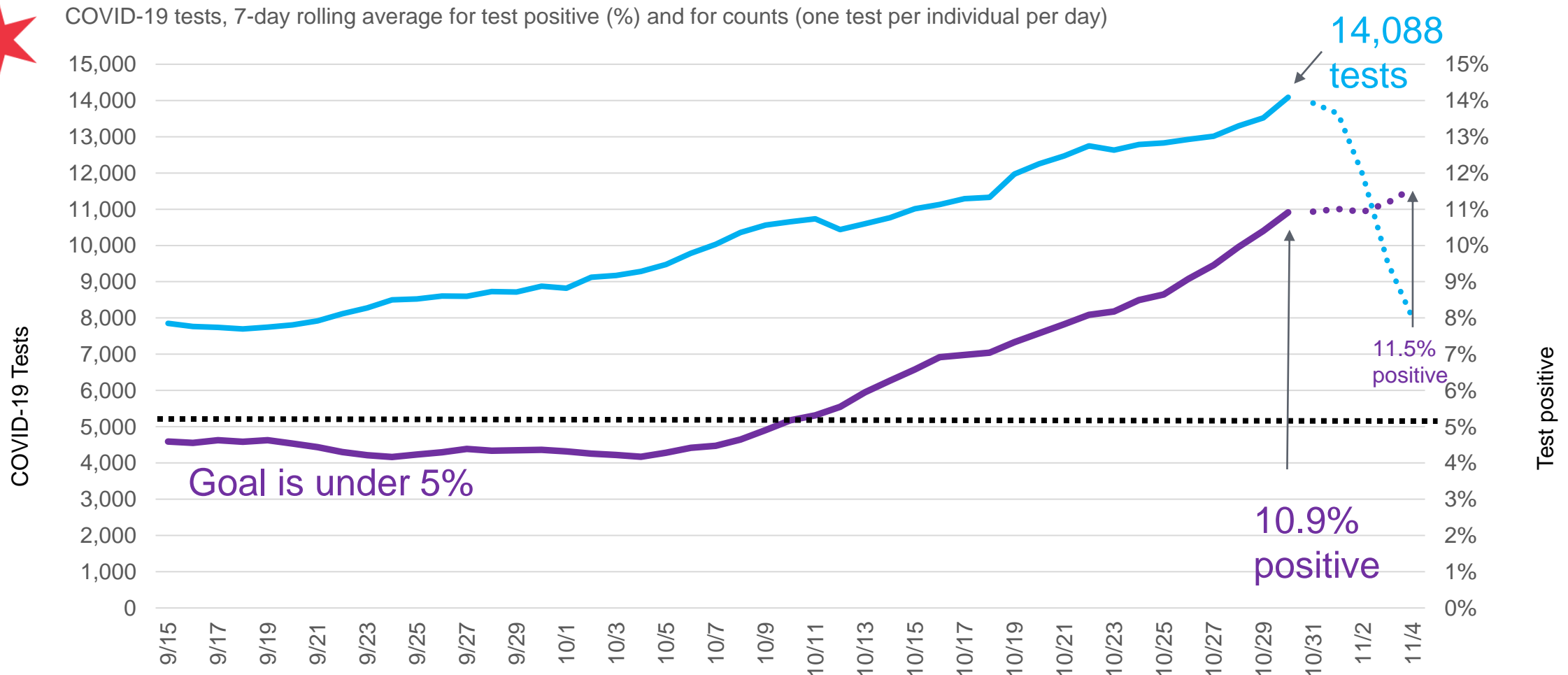


Percentage of all emergency department visits reported with COVID-like symptoms among Chicago residents.
 Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.



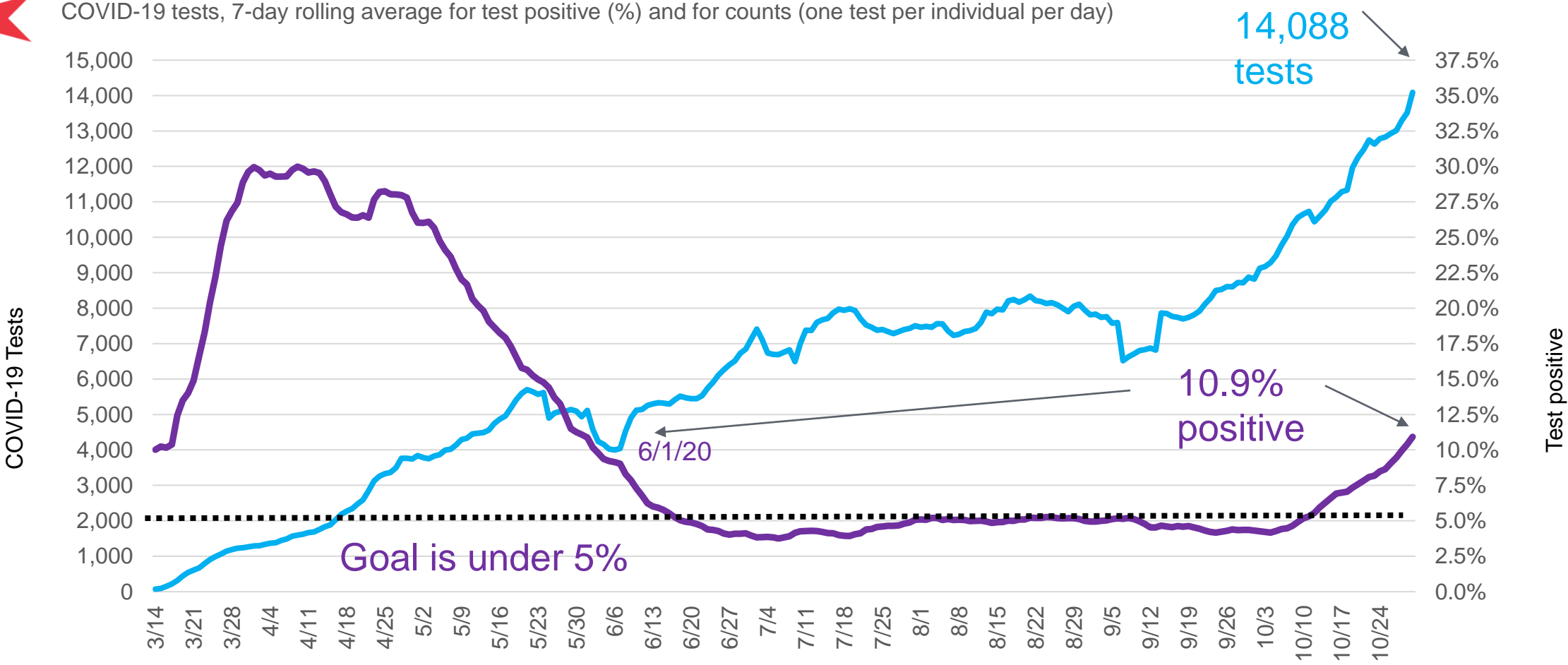
Test Positivity

Test positivity is 10.9%. Testing is at an all-time high.



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).



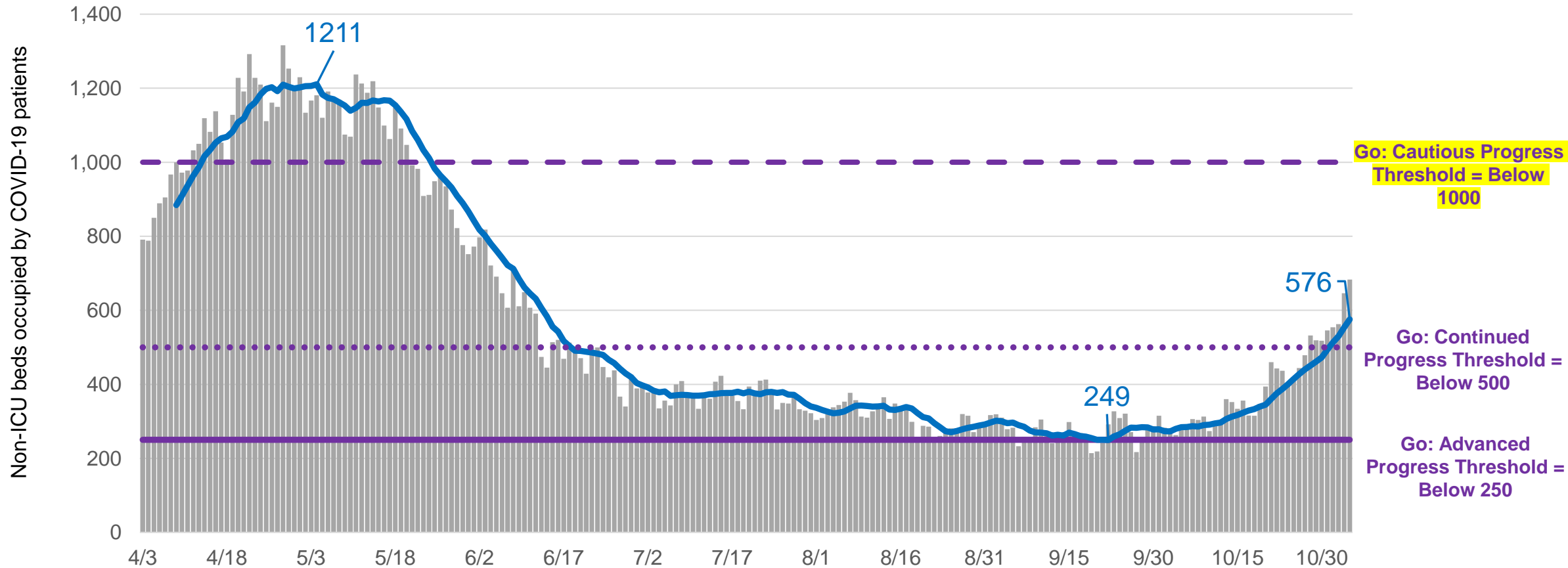
Hospital System Capacity

Non-ICU bed occupancy from COVID-19 is 48% of peak occupancy and increasing; now at **Go: Cautious Progress**.



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

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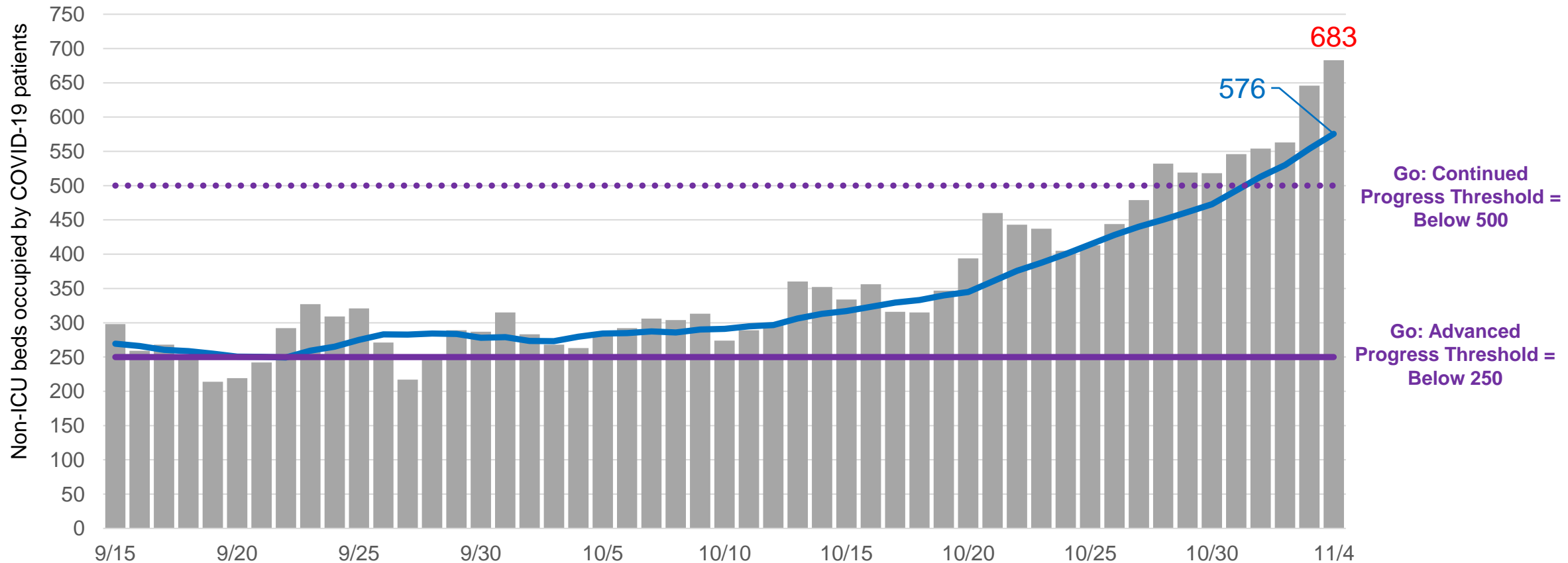
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning April 3 (acute non-ICU occupancy). Acute non-ICU bed counts include burn, emergency department, med/surg, other, pediatrics and psychiatry beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes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

Non-ICU bed occupancy from COVID-19 is increasing at an average of net 15 non-ICU admissions per day; **Go: Cautious Progress.**



Peak 7-day rolling average	1211 avg. occupied non-ICU beds 5/4/2020
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COVID-19 acute/non-ICU beds occupied, daily counts, 7 day average and reopening threshold, daily occupancy census (9/15/2020-11/4/2020)



Go: Continued Progress Threshold = Below 500

Go: Advanced Progress Threshold = Below 250

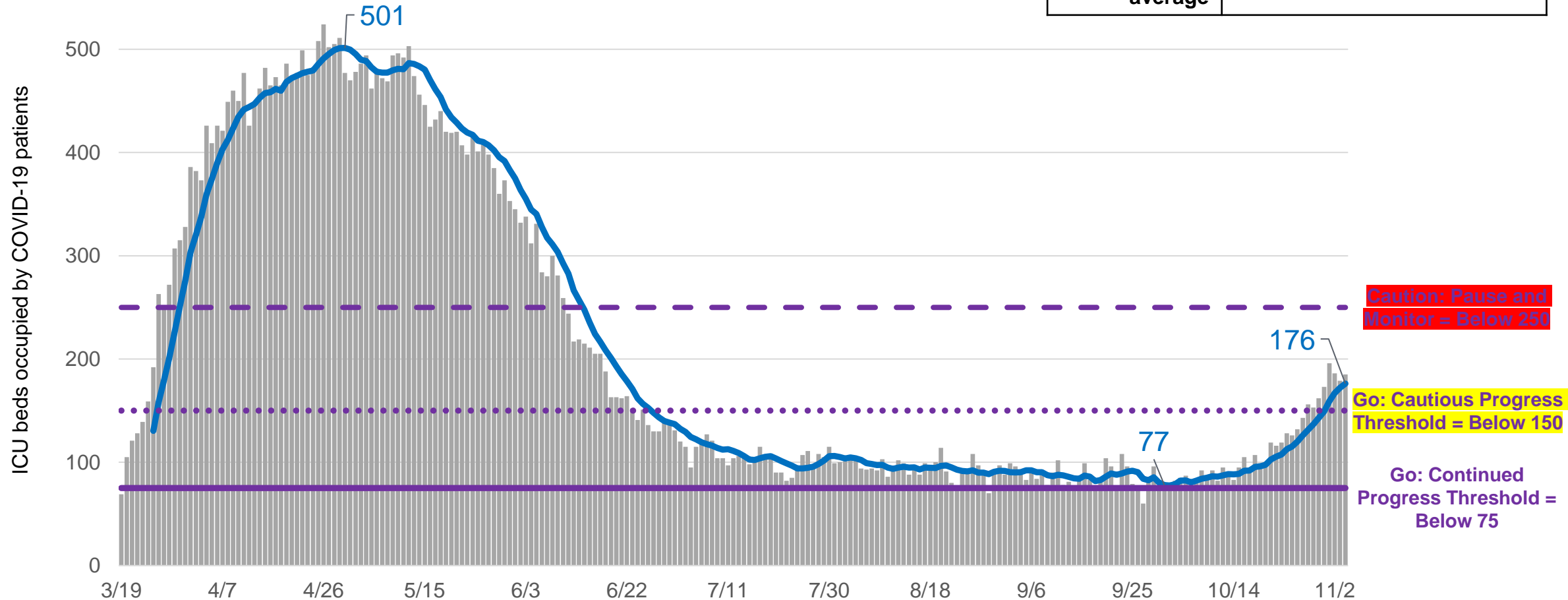
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning April 3 (acute non-ICU occupancy). Acute non-ICU bed counts include burn, emergency department, med/surg, other, pediatrics and psychiatry beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes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

ICU occupancy from COVID-19 is 35% of peak occupancy and increasing; now at **Caution: Pause and Monitor**



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

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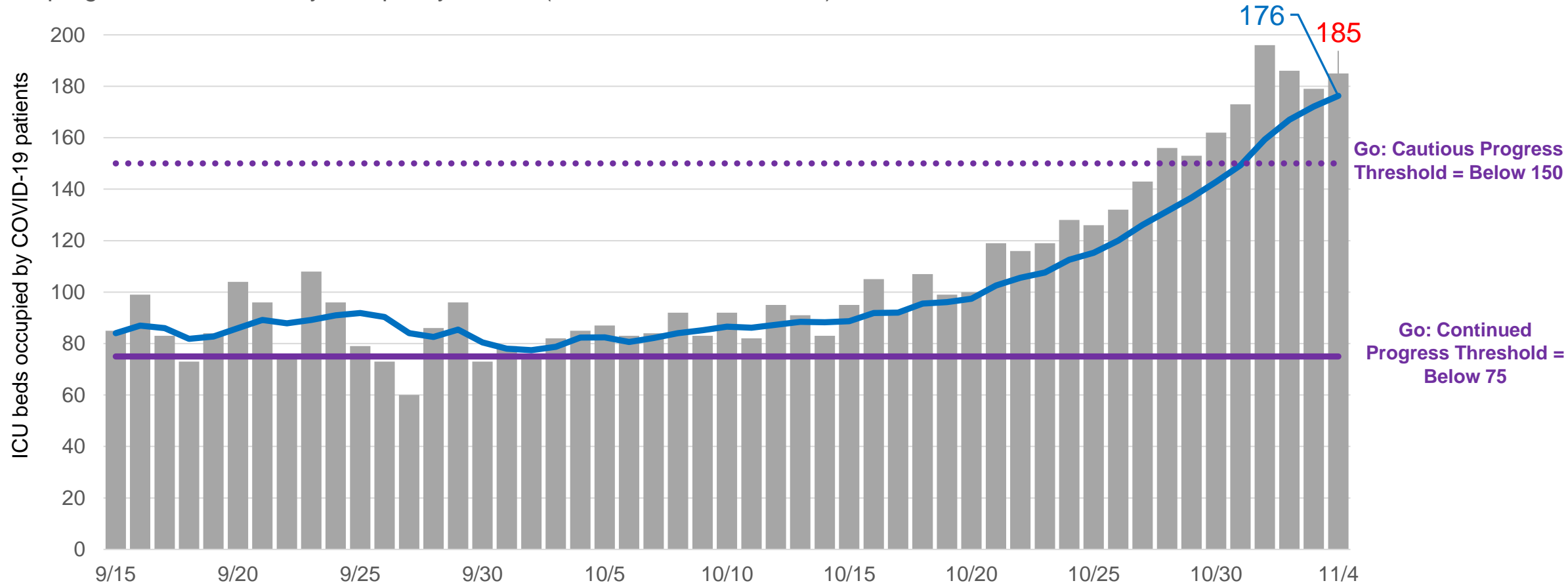
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, the definition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

ICU occupancy from COVID-19 is increasing at an average rate of net 5 ICU admissions per day; **Caution: Pause and Monitor**



Peak 7-day rolling average	501 avg. occupied ICU beds 4/30/2020
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COVID-19 ICU beds occupied, daily counts, 7 day average and progress threshold, daily occupancy census (09/15/2020 - 11/04/2020)



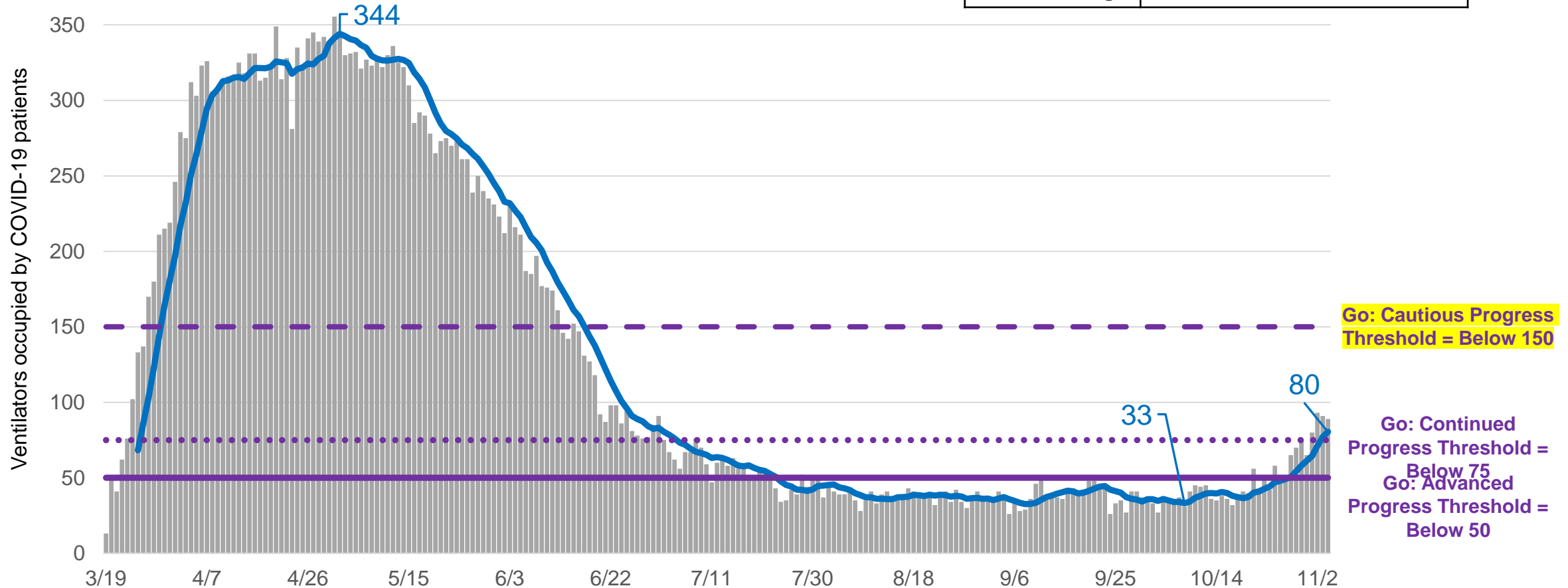
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, the definition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

Ventilator utilization from COVID-19 is 23% of peak occupancy and increasing; now at **Go: Cautious Progress.**



COVID-19 ventilators in use, daily counts, 7 day average and reopening threshold, daily utilization census (3/19/2020-11/4/2020)

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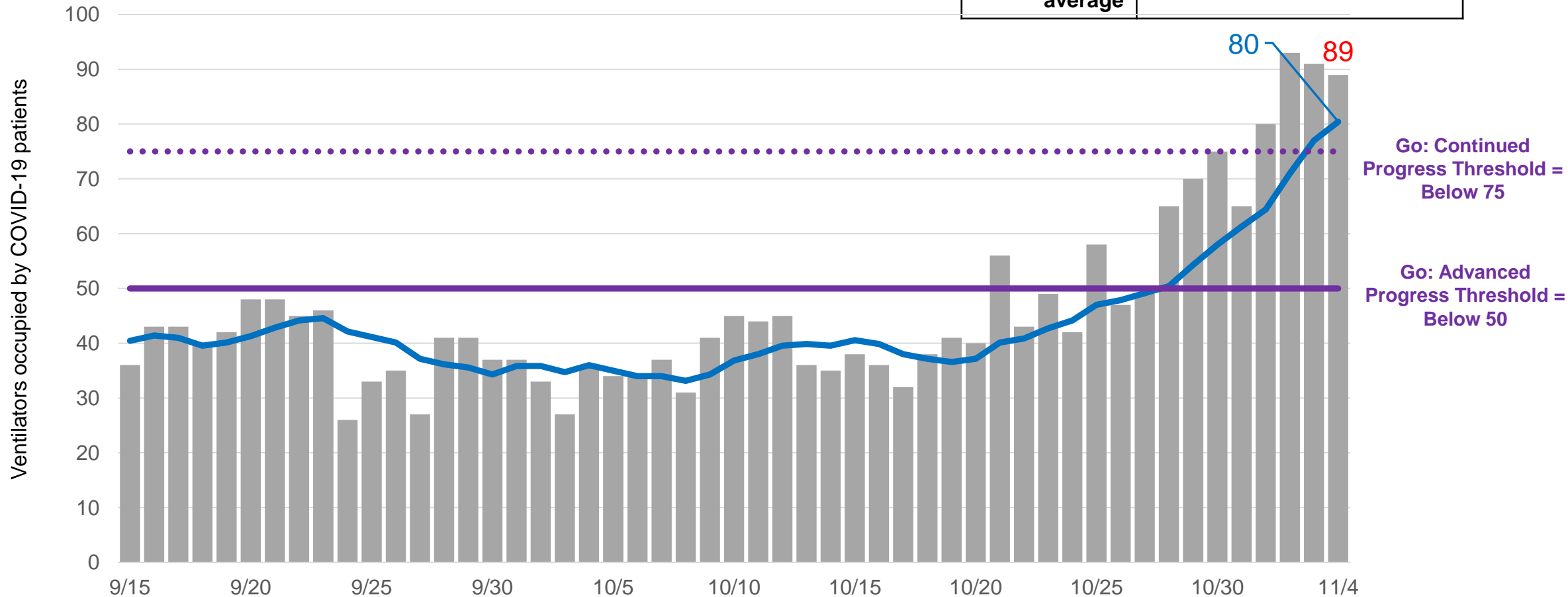
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, ventilator counts include all full-functioning mechanical ventilators, BiPAP, anesthesia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

Ventilator utilization from COVID-19 is increasing at an average rate of net 3 per day; **Go: Cautious Progress.**



COVID-19 ventilators in use, daily counts, 7 day average and reopening threshold, daily utilization census (9/15/2020-11/4/2020)

Peak 7-day rolling average	344 avg. ventilators in use 5/2/2020
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Go: Continued Progress Threshold = Below 75

Go: Advanced Progress Threshold = Below 50

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.

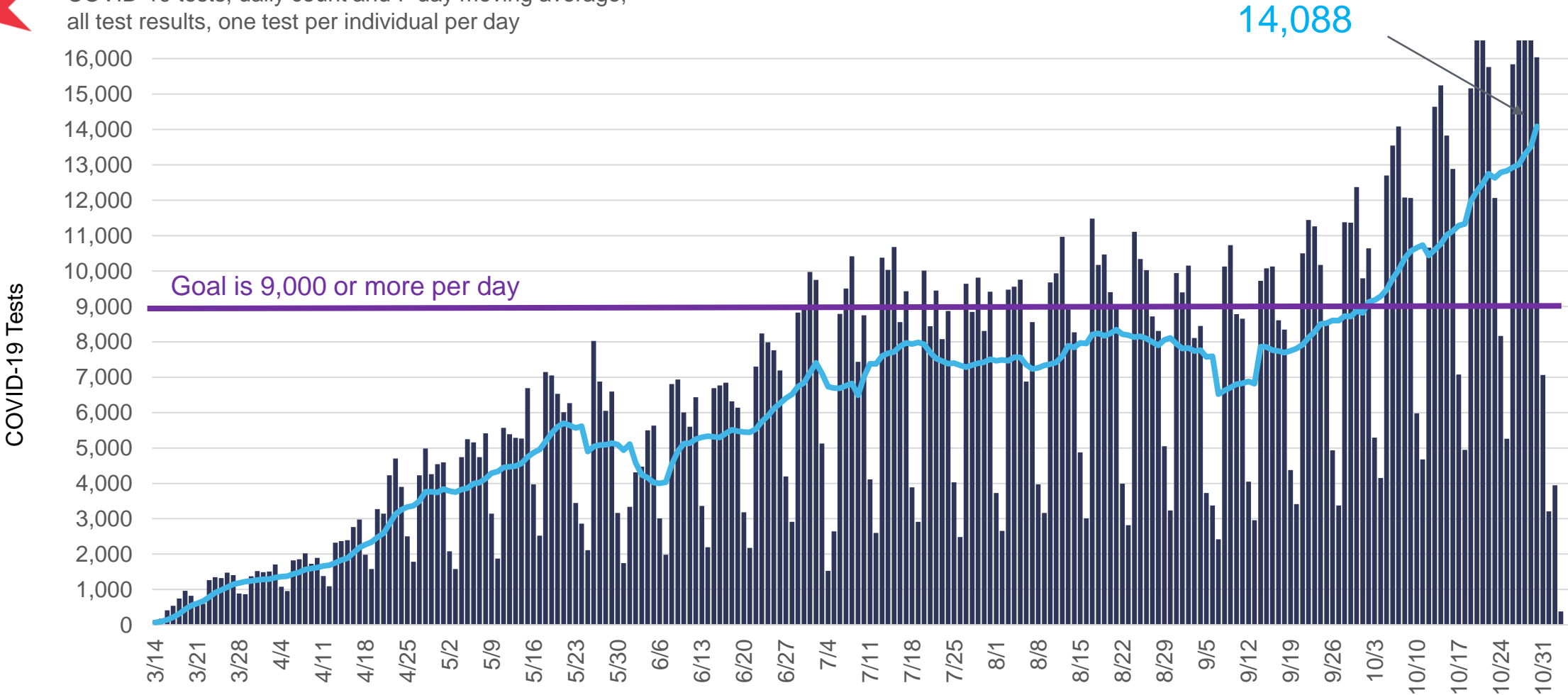


Diagnostic Testing Capacity

COVID-19 testing above 9,000 tests per day for 29 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.