Protecting Chicago: Phase IV Re-Opening Metrics Update

October 17, 2020

(Data current through 10/14/2020)

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 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	>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	<500 non-ICU beds occupied by COVID patients <200 ICU beds occupied by COVID patients <150 ventilators occupied by	<250 non-ICU beds occupied by COVID patients <100 ICU beds occupied by COVID patients <75 ventilators occupied by COVID

COVID-19 Confirmed Cases

COVID-19 case incidence in Chicago is persistently high and growing. Cases have been increasing or stable for 27 days.

Recent Trend	Decrease 2 days (9/10-9/12) Increase 3 days (9/12-9/15) 16 C/D Stable 8 days (9/15-9/23) Increase 7 days (9/23-9/30) 6 C/D Stable 5 days (9/30 -10/4) Increase 5 days (10/4-10/9) 22 C/D
14-day Incidence	HIGH (389 avg. daily cases*)
14-day slope	GROWTH +9.4 cases per day
Peak 14-day incidence	998 avg. daily cases 5/20/2020

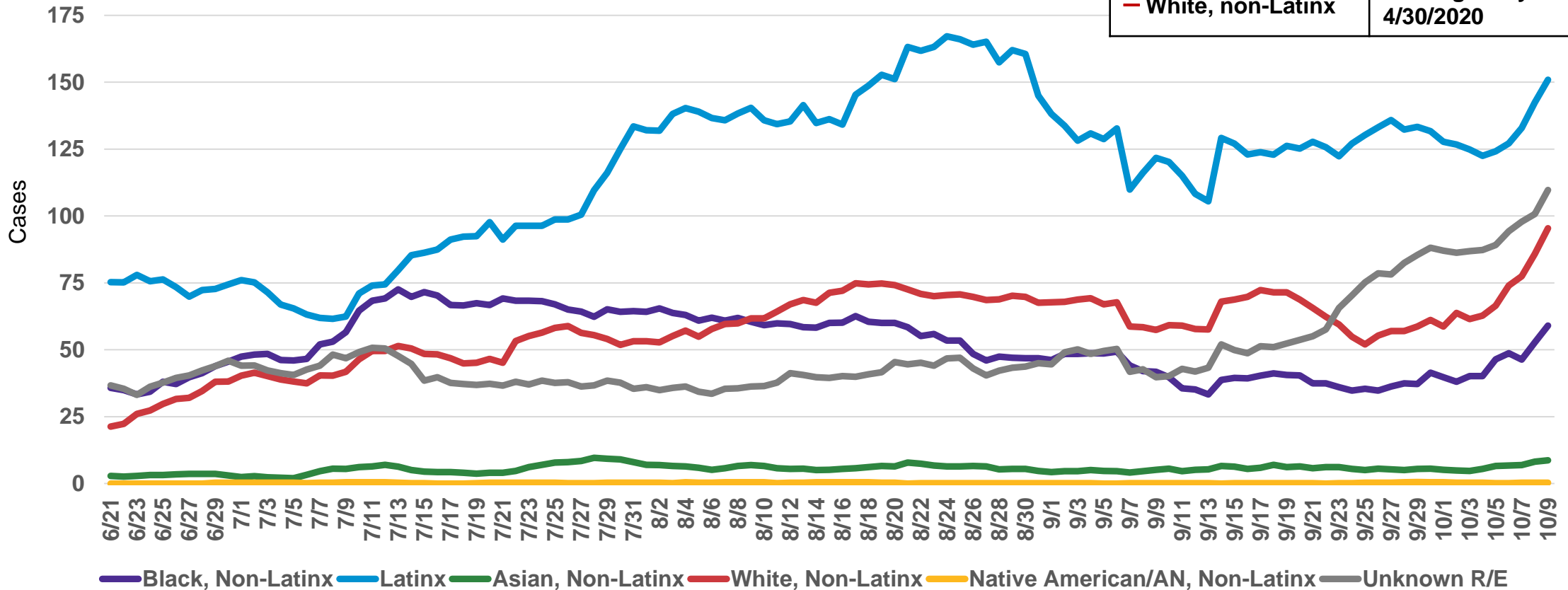COVID-19 cases, daily counts and rolling 7-day average, specimen date
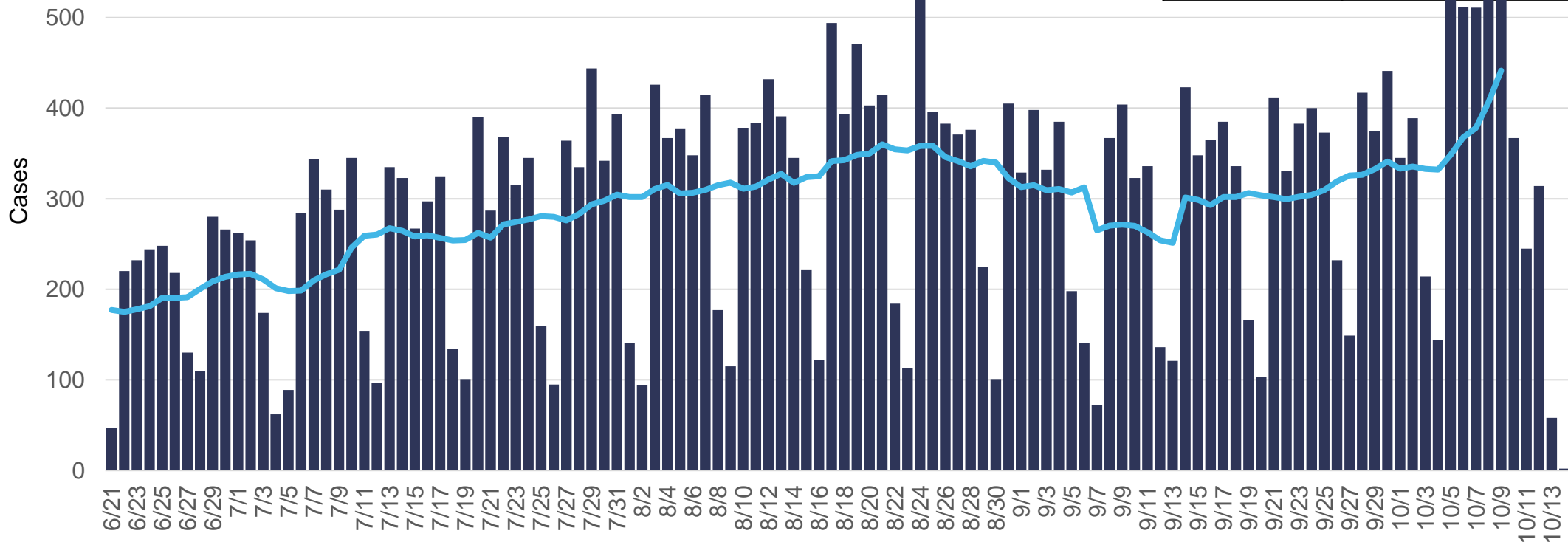
Daily COVID-19 cases with known specimen report date. *14-day incidence is calculated by summing all new cases in the most recent 14-day period and dividing by 14 days to find an average daily count. Incidence gating rank is determined using 14-day cumulative incidence/100,000 population. The gating rank categories are defined as. LOW (1-10); MODERATELY LOW (11-25); 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.

COVID-19 case incidence highest among Latinx; incidence is rising among all race/ethnicity groups.

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**

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

Legend: **Black, Non-Latinx** — **Latinx** — **Asian, Non-Latinx** — **White, Non-Latinx** — **Native American/AN, Non-Latinx** — **Unknown R/E**
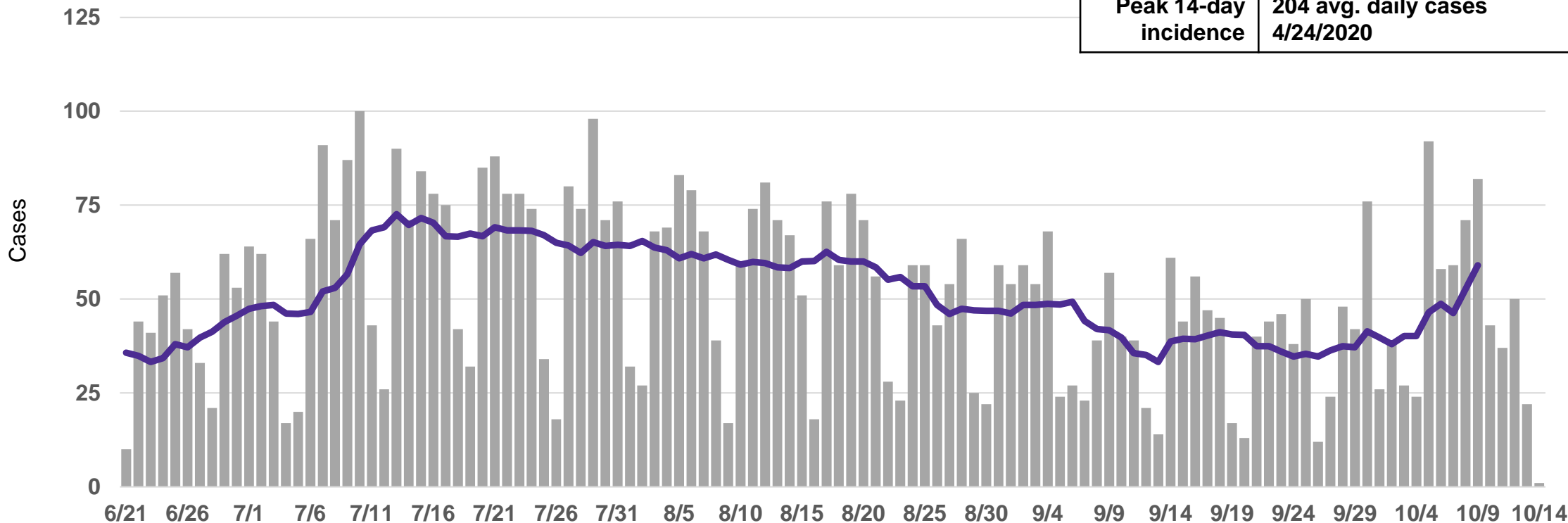
Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence.

5

Black, non-Latinx case incidence is moderately high and growing. Cases have been increasing for 15 days.

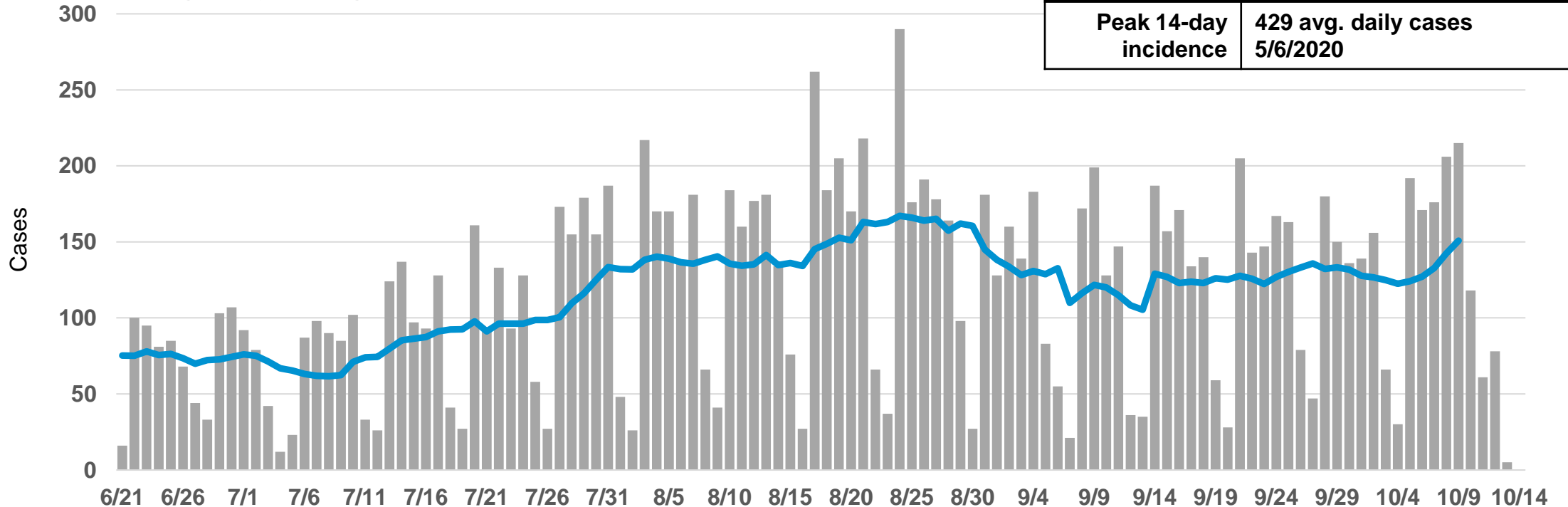|	
Recent Trend	Stable 2 days (9/10-9/12) Increase 6 days (9/12-9/18) 1 C/D Decrease 6 days (9/18-9/24) Increase 15 days (9/24-10/9) 2C/D
14-day incidence	MODERATELY HIGH (49 avg. daily cases*)
14-day slope	GROWTH +1.7 cases per day
Peak 14-day incidence	204 avg. daily cases 4/24/2020

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.

6

Latinx case incidence is very high and growing. Cases have been increasing rapidly for the past 4 days.

Recent Trend	Decrease 2 days (9/10-9/12) Increase 3 days (9/12-9/15) 6 C/D Stable 8 days (9/15-9/23) Increase 4 days (9/23-9/27) 4 C/D Decrease 8 days (9/27-10/5) Increase 4 days (10/5-10/9) 7 C/D
14-day incidence	HIGH (139 avg. daily cases*)
14-day slope	GROWTH +1.3 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 moderately high and growing. Cases have been increasing for the past 6 days.

COVID-19 cases among Asian, non-Latinx residents, daily counts and rolling 7-day average, specimen collection date
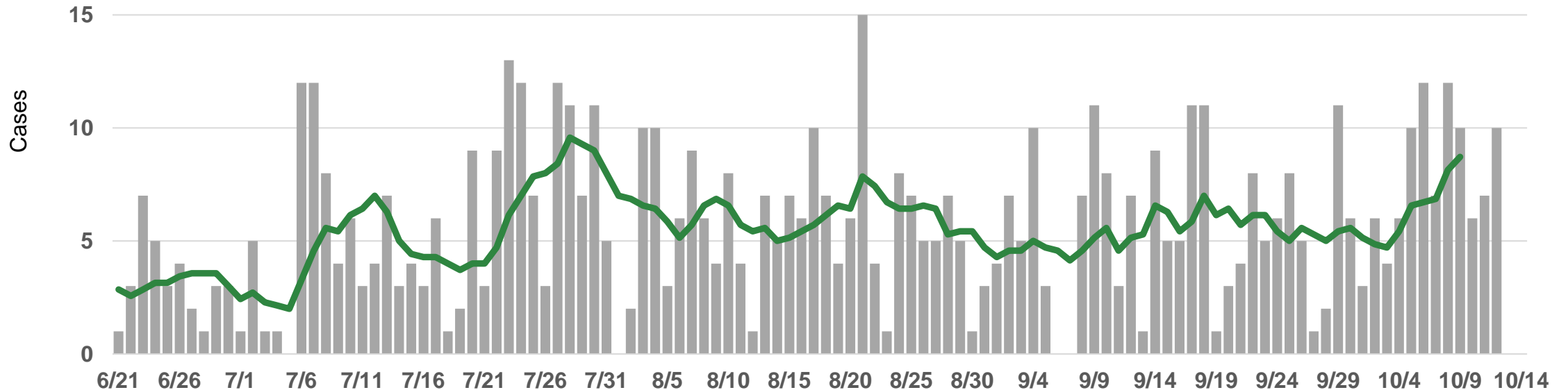
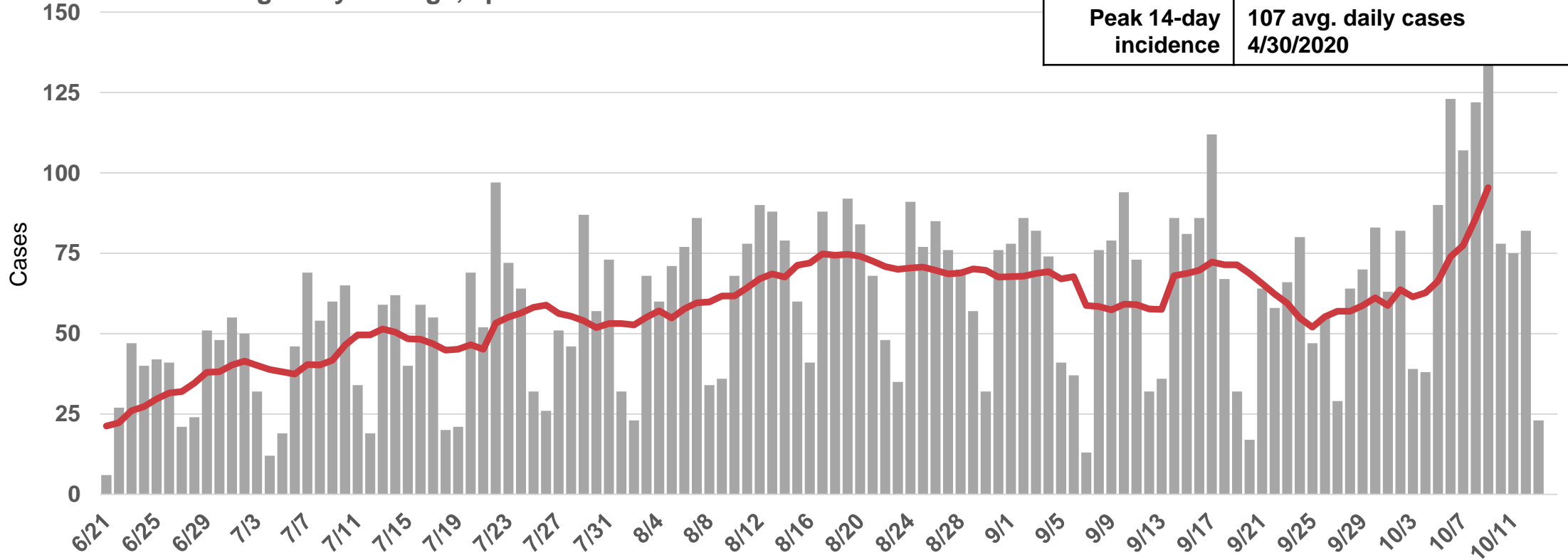| Recent Trend	Stable 8 days (9/10-9/18) Decrease 15 days (9/18-10/3) Increase 6 days (10/3-10/9) 1 C/D
14-day incidence	**MODERATELY HIGH** (7 avg. daily cases*)
14-day slope	**GROWTH** +0.2 cases per day
Peak 14-day incidence	21 avg. daily cases 4/26/2020

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); 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. Cases have been increasing for 14 days.

Recent Trend	Stable 2 days (9/10-9/12) Increase 3 days (9/12-9/15) 4 C/D Stable 4 days (9/15-9/19) Decrease 6 days (9/19-9/25) Increase 14 days (9/25-10/9) 3 C/D
14-day incidence	HIGH (80 avg. daily cases*)
14-day slope	GROWTH +2.9 cases per day
Peak 14-day incidence	107 avg. daily cases 4/30/2020

COVID-19 cases among white, 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.

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

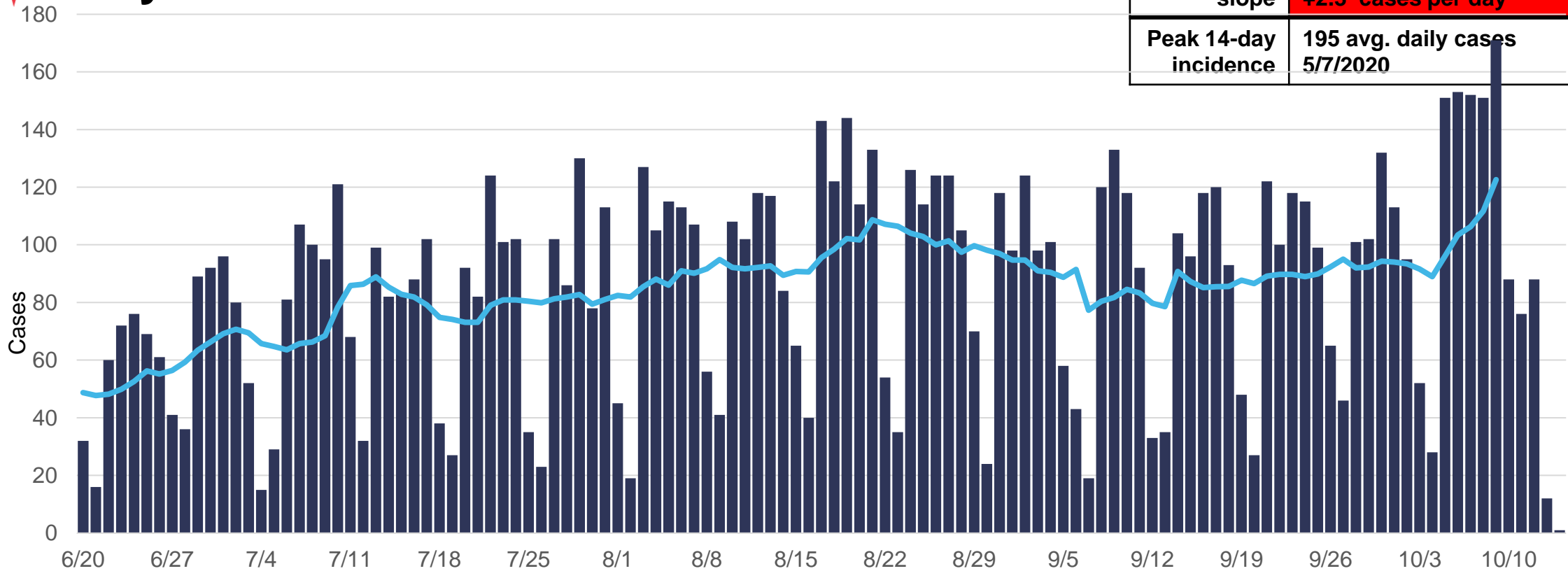|	
Recent Trend	Cases at low incidence for >28 days. 97 cumulative cases.
14-day incidence	0.3 avg. daily cases*
14-day slope	+0.0 cases per day
Peak 14-day incidence	2 avg. daily cases 5/5/2020

COVID-19 cases among Native American/Alaska Native, non-Latinx residents, daily counts and rolling 7-day average, specimen collection date
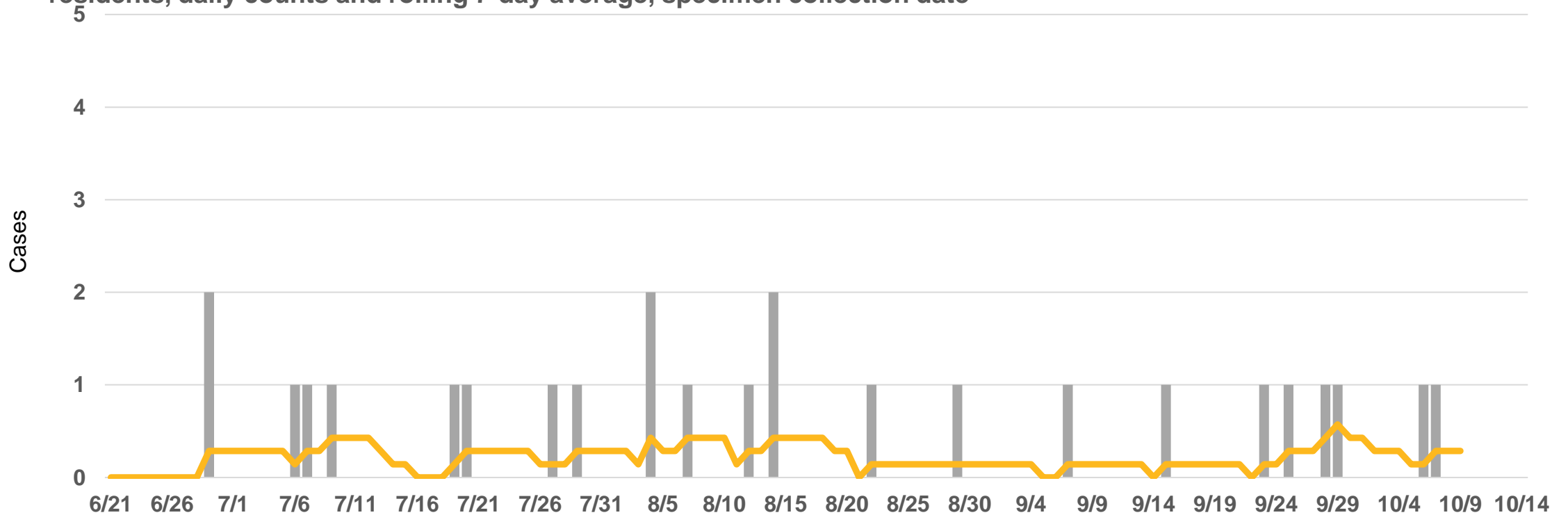
Daily COVID-19 cases with known specimen report date and race/ethnicity information. Approximately 30% of cases used to calculate 14-day incidence are missing race/ethnicity information, therefore the reported 14-day incidence represents an undercount of true incidence. Daily counts for most recent dates 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.

10

18-29 year old case incidence is persistently high and growing. Cases have been increasing for 26 of the last 29 days.

Recent Trend	Increase 21 days (9/10-10/1) 1C/D Stable 3 days (10/1-10/4) Increase 5 days (10/4 -10/9) 7 C/D
14-day Incidence	HIGH (108 avg. daily cases*)
14-day slope	Growth +2.3 cases per day
Peak 14-day incidence	195 avg. daily cases 5/7/2020

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

Cases

180
160
140
120
100
80
60
40
20
0

6/20   6/27   7/4   7/11   7/18   7/25   8/1   8/8   8/15   8/22   8/29   9/5   9/12   9/19   9/26   10/3   10/10

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.
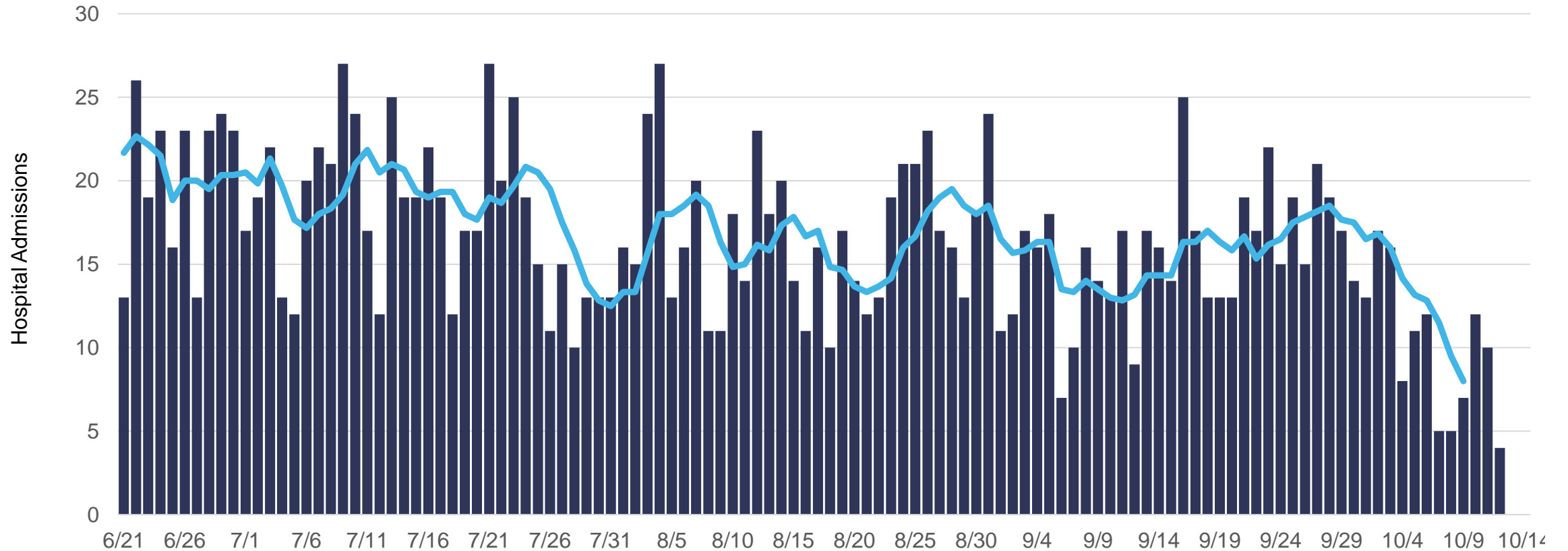
11

COVID-19 Severe Outcomes

Daily COVID-19 hospital admissions data are unreliable for last 14 days

Recent Trend	<19 admissions per day for 30 days
Peak 7-day rolling average	173 avg. daily admissions 4/12/2020

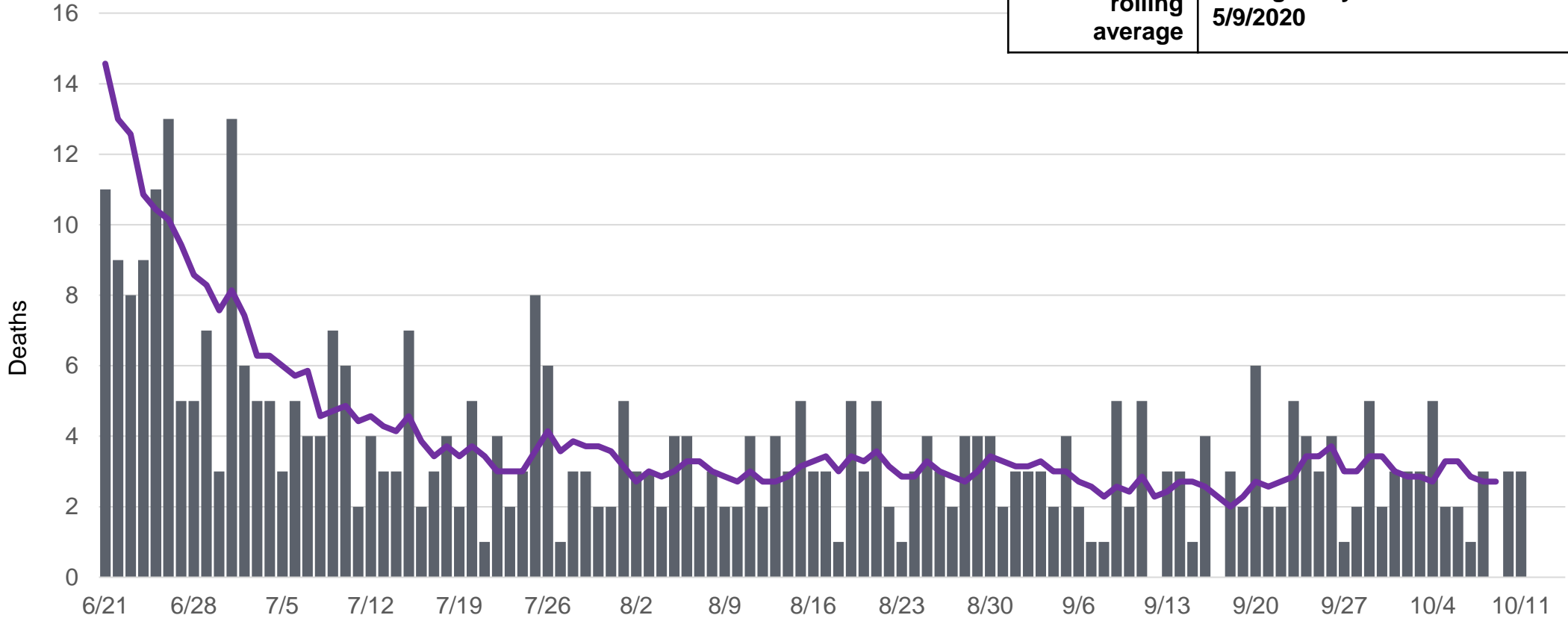COVID-19 Hospital admissions, daily counts and rolling 7-day average, first known hospital admit date

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.

13

COVID-19 deaths are stable at 2 to 4 deaths per day.

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

| Recent Trend	At or below 4 avg. daily deaths for >30 days
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.
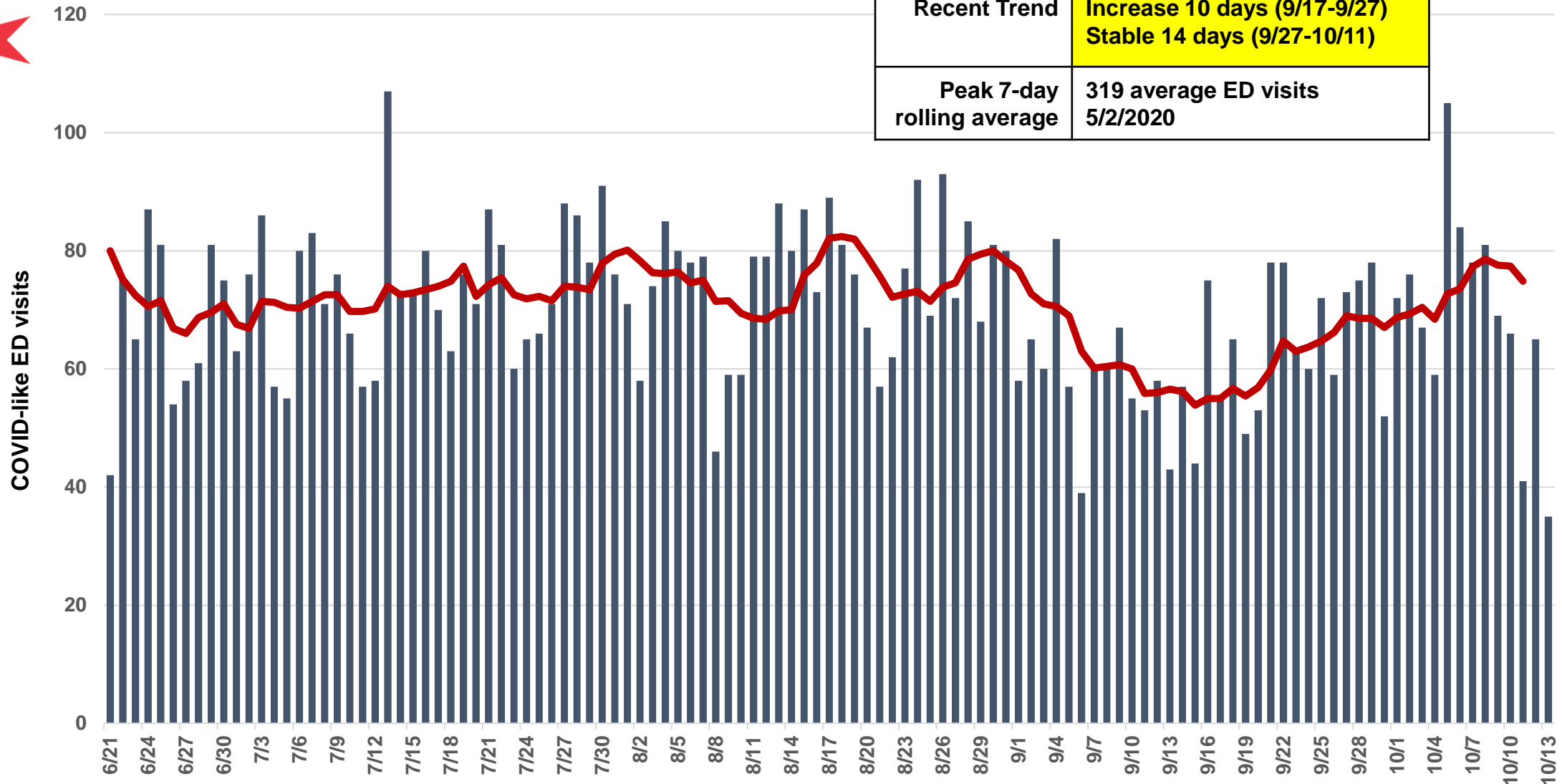
14

Emergency Department Visits

Proportion of ED visits for influenza-like illnesses has been stable for 9 days after increasing for 5 days.

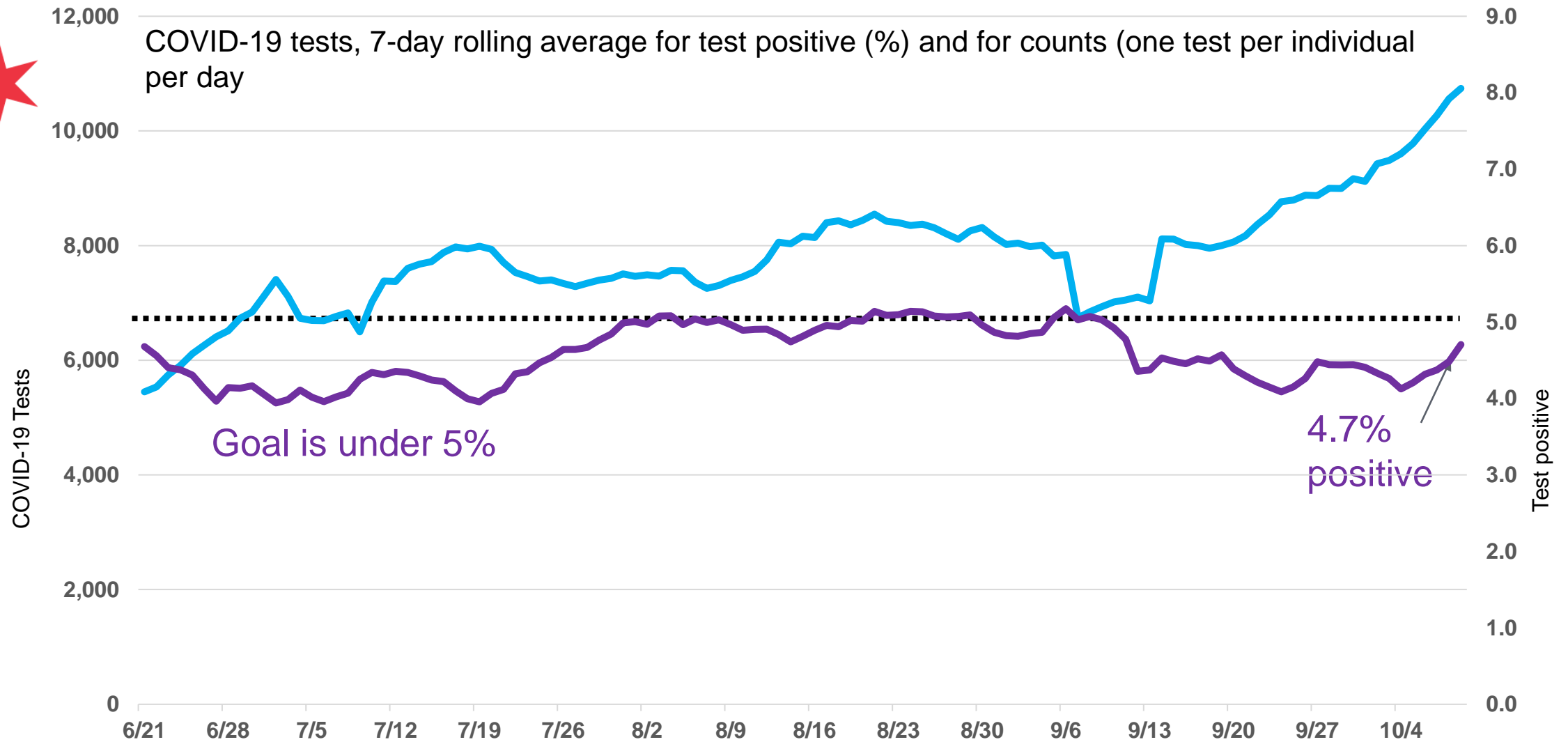| Recent Trend	Decrease 15 days (9/12-9/20) Increase 5 days (9/20-9/25) Stable 9 days (9/25-10/11)
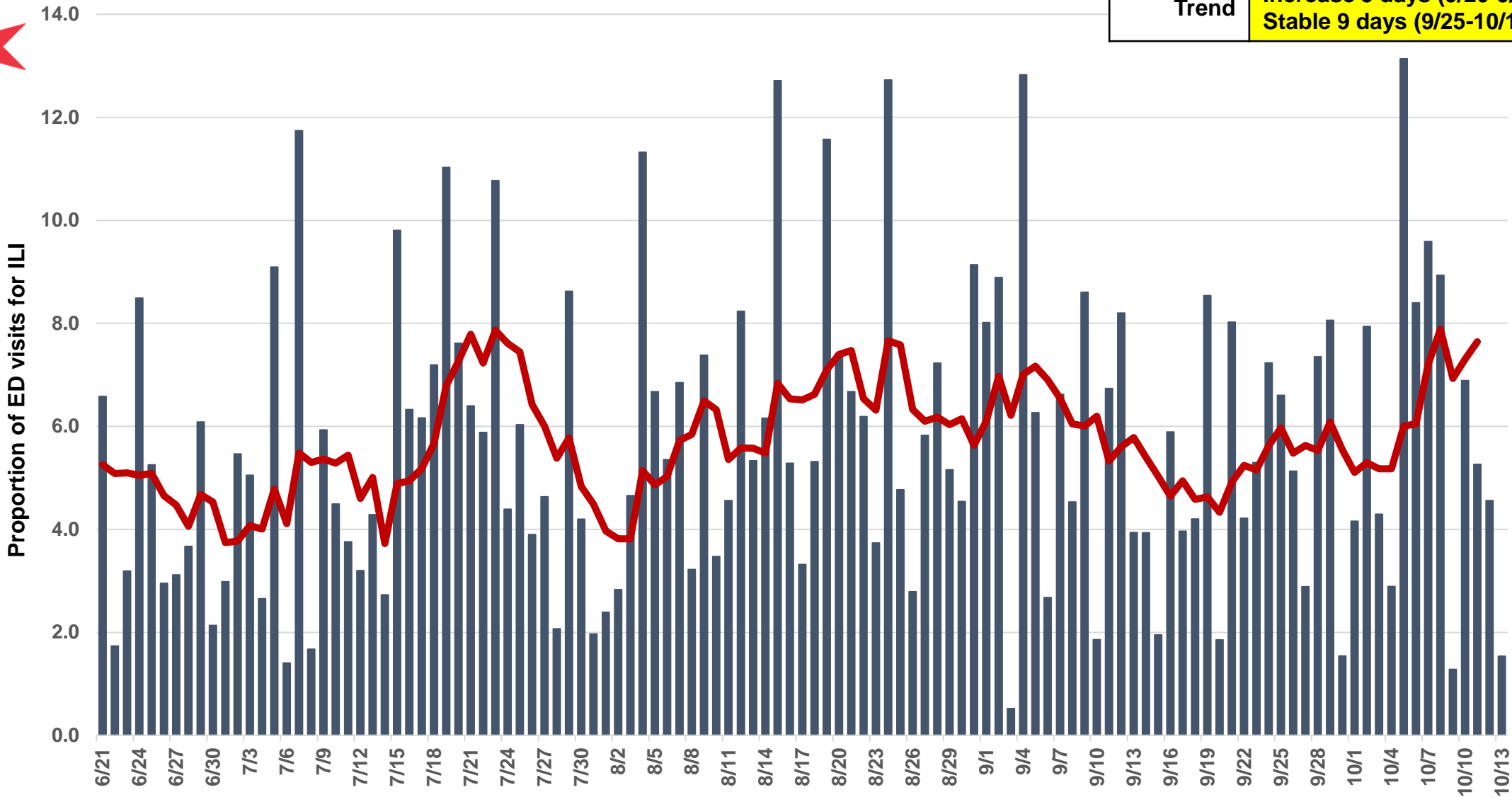
ILI: Influenza-like illness. Percentage of all emergency department visits reported with influenza-like illness symptoms among Chicago residents.
Data Source: Illinois Hospital Emergency Departments reporting to CDPH through the National Syndromic Surveillance Project.

16

ED visits for COVID-like illness has been stable for 14 days after increasing for 10 days.

Recent Trend	Stable 5 days (9/12-9/17) Increase 10 days (9/17-9/27) Stable 14 days (9/27-10/11)
Peak 7-day rolling average	319 average ED visits 5/2/2020

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 and Person Positivity

Test positivity is 4.7%. Testing is at an all-time high.

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

Goal is under 5%

4.7% positive

Hospital System Capacity

Non-ICU bed occupancy adequate: occupancy has increased by 25% since September 22

Peak 7-day rolling average	1211 avg. occupied non-ICU beds 5/4/2020

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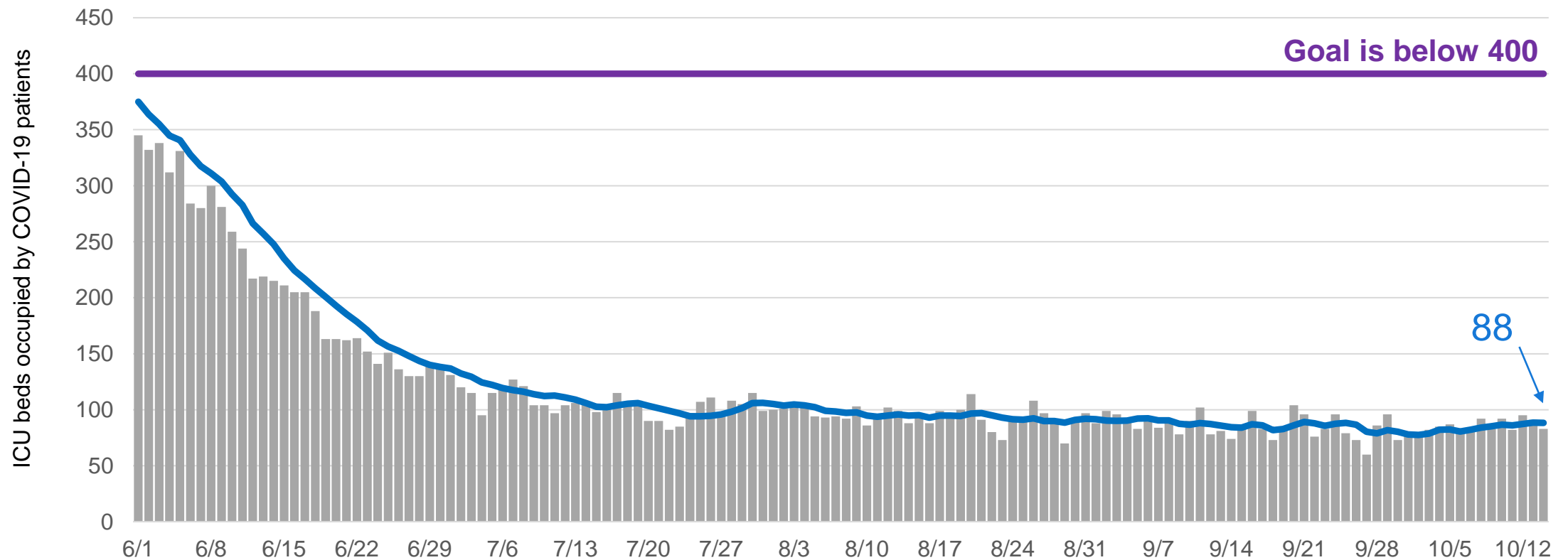7 day average and reopening threshold, daily occupancy census
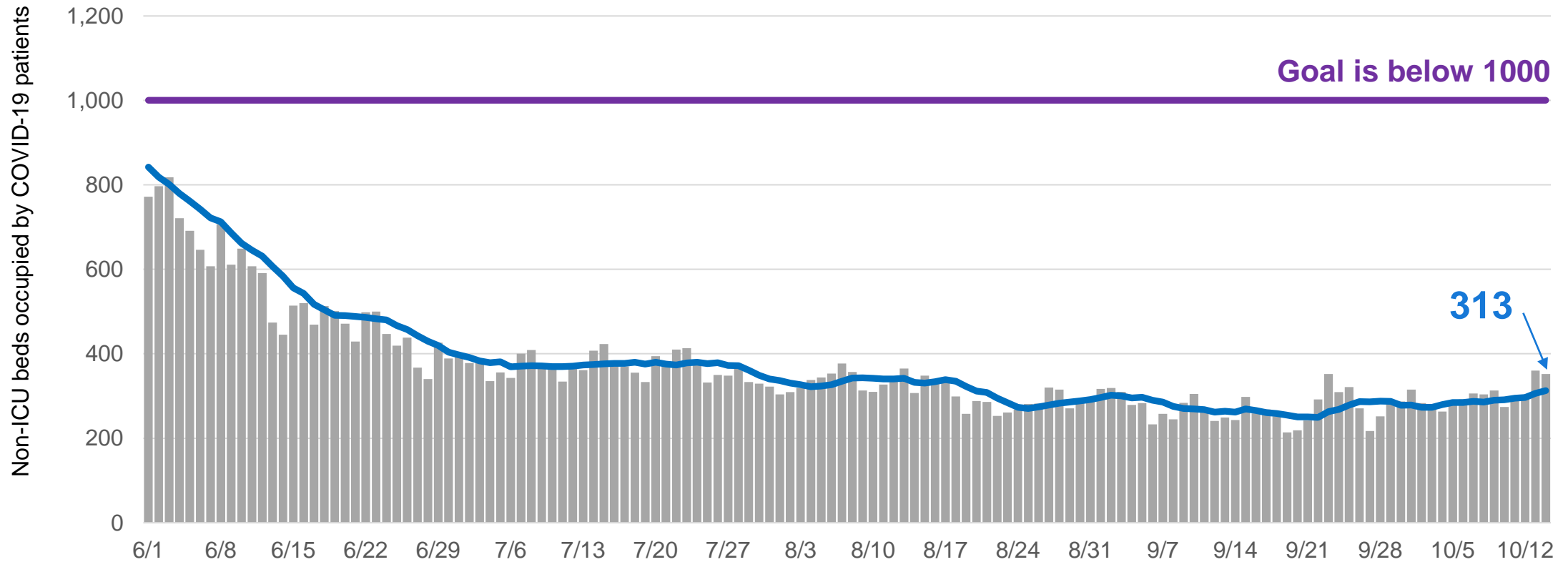
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning April 3 (acute non-ICU occupancy). Acute non-ICU bed counts include burn, emergency department, med/surg, other, pediatrics and psychiatry beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes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

ICU capacity adequate: <100 ICU beds occupied by patients with COVID-19.

Peak 7-day rolling average	501 avg. occupied ICU beds 4/30/2020

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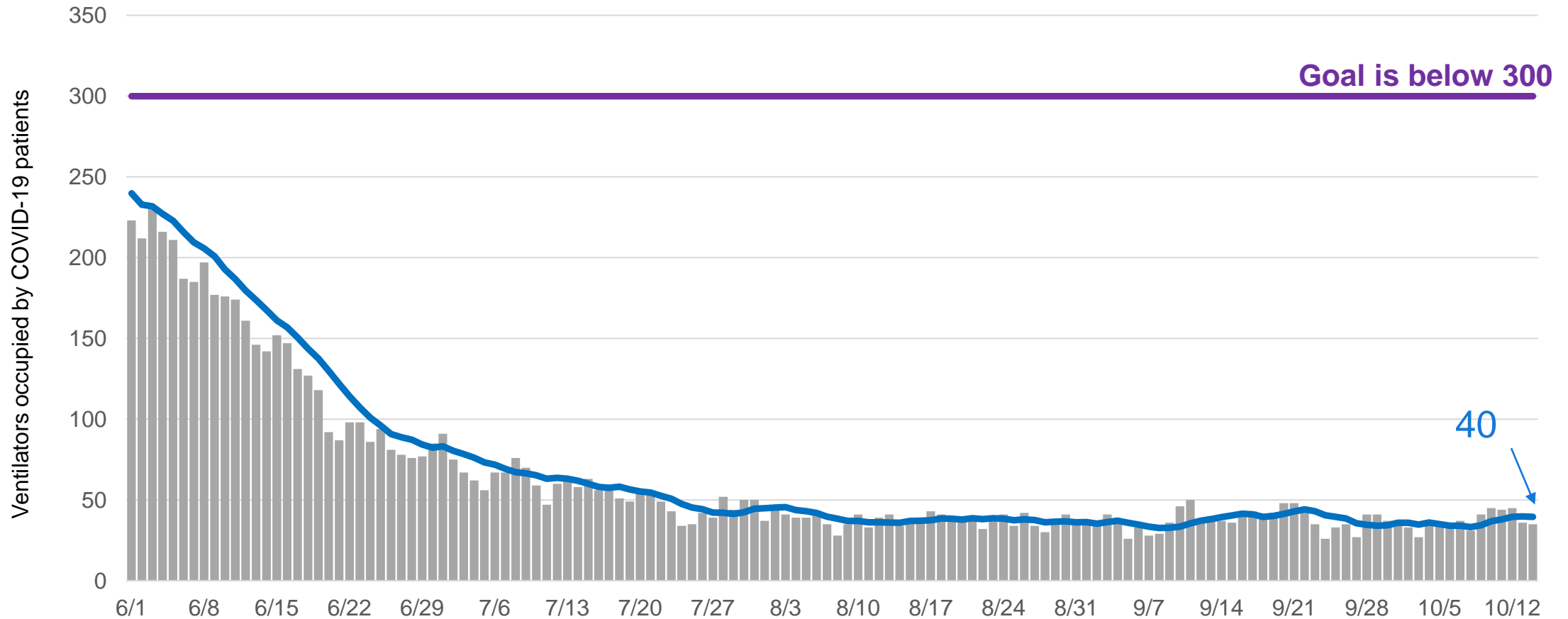

Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases. Beginning 4/24/2020, the definition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

22

Ventilator capacity adequate: <75 patients with COVID-19 on ventilators.

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

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

Goal is below 300

40

Ventilators occupied by COVID-19 patients

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 4,500 tests per day for 116 straight days. Testing up 40% since Sept 7th.

10,743
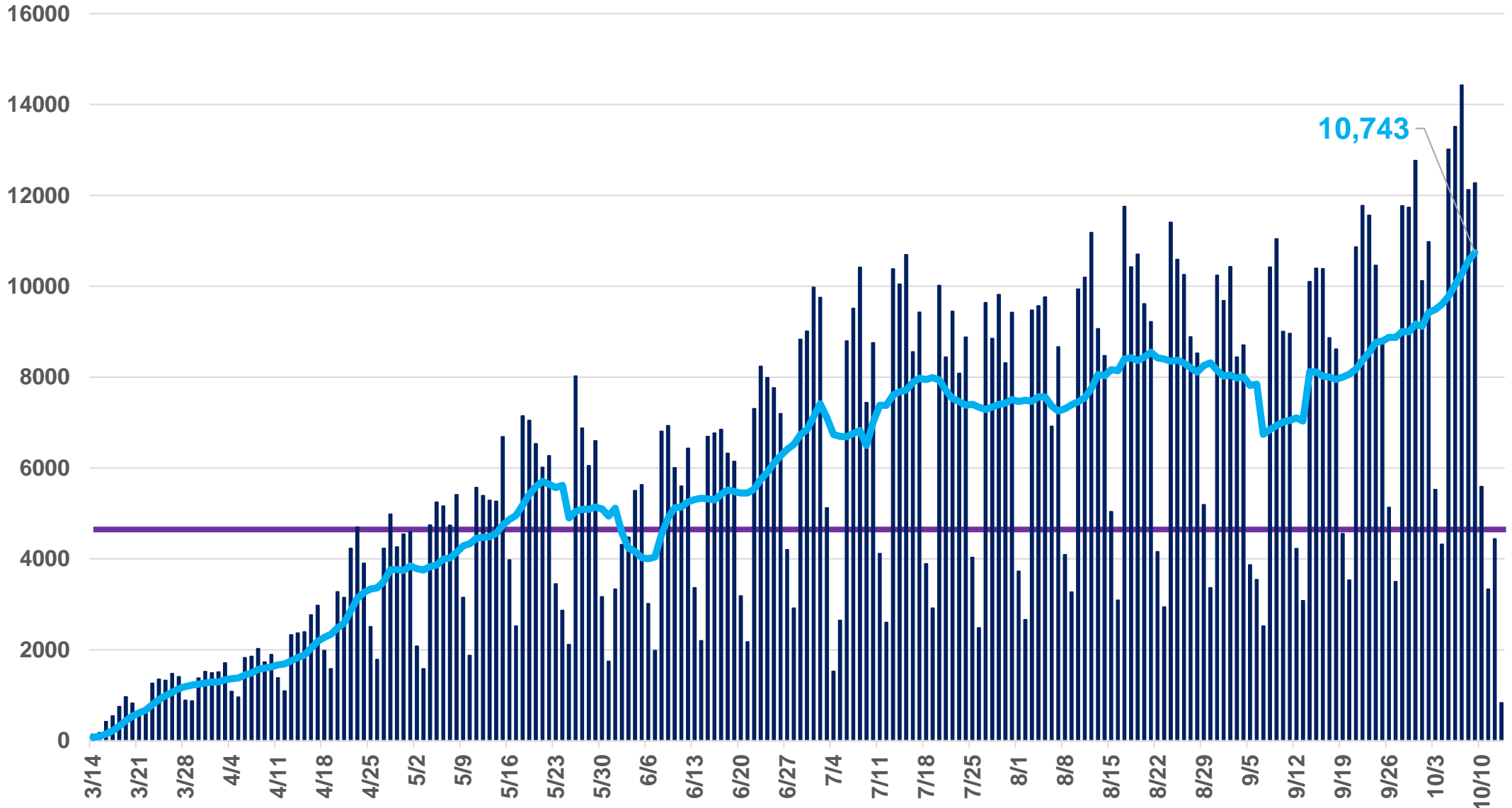
All COVID-19 tests performed on Chicago residents per day as reported by electronic lab reporting from IDPH. 4,500 tests per day represents the capacity to test 5% of Chicago residents per month. Daily counts for most recent dates displayed are likely incomplete.

Case Investigation & Contact Tracing Response

Gating criteria being updated based on new data system implementation