



Protecting Chicago: Phase IV Re-Opening Metrics Update

May 7th, 2021

(Data current through 5/5/2021)

Chicago COVID-19 Community Metrics, Phase IV, current status

	Risk/Trajectory as of 5/6/2021	Very high risk	High risk	Moderate risk	Lower risk	Controlled transmission
COVID cases diagnosed per day Chicago residents 7-day rolling daily average	HIGH DECLINING 500	800+ -or- 7+ consecutive days more than 15% higher than daily average one week prior	400 - 799 -or- 5+ consecutive days more than 10% higher than daily average one week prior	200 - 399 -and- decreasing or stable compared to daily average one week prior	20 – 199 -and- decreasing or stable compared to daily average one week prior	<20
COVID test positivity Chicago residents 7-day rolling daily average	LOWER DECLINING 4.5%	10%+ -or- 7+ consecutive days more than 15% higher than daily average one week prior	6.6 - 9.9% -or- 5+ consecutive days more than 10% higher than daily average one week prior	5.0 - 6.5% -and- decreasing or stable compared to daily average one week prior	2 - 4.9% -and- decreasing or stable compared to daily average one week prior	<2%
Emergency dept visits for COVID- like illness Chicago hospitals 7-day rolling daily average	VERY HIGH DECLINING 131	90+ -or- 7+ consecutive days more than 15% higher than daily average one week prior	80-89 -or- 5+ consecutive days more than 10% higher than daily average one week prior	60 - 79 -and- decreasing or stable compared to daily average one week prior	20 - 59 -and- decreasing or stable compared to daily average one week prior	<20
Non-ICU beds occupied by COVID patients Chicago hospitals 7-day rolling daily average	MODERATE STABLE 370	1250+ or- 7+ consecutive days more than 15% higher than daily average one week prior	750 – 1249 -or- 5+ consecutive days more than 10% higher than daily average one week prior	250 - 749	100 - 249	<100
ICU beds occupied by COVID patients Chicago hospitals 7-day rolling daily average	MODERATE STABLE 141	400+ -or- <20% overall ICU bed availability	300 - 399 -or- <22% overall ICU bed availability	100 - 299	20 - 99	<20

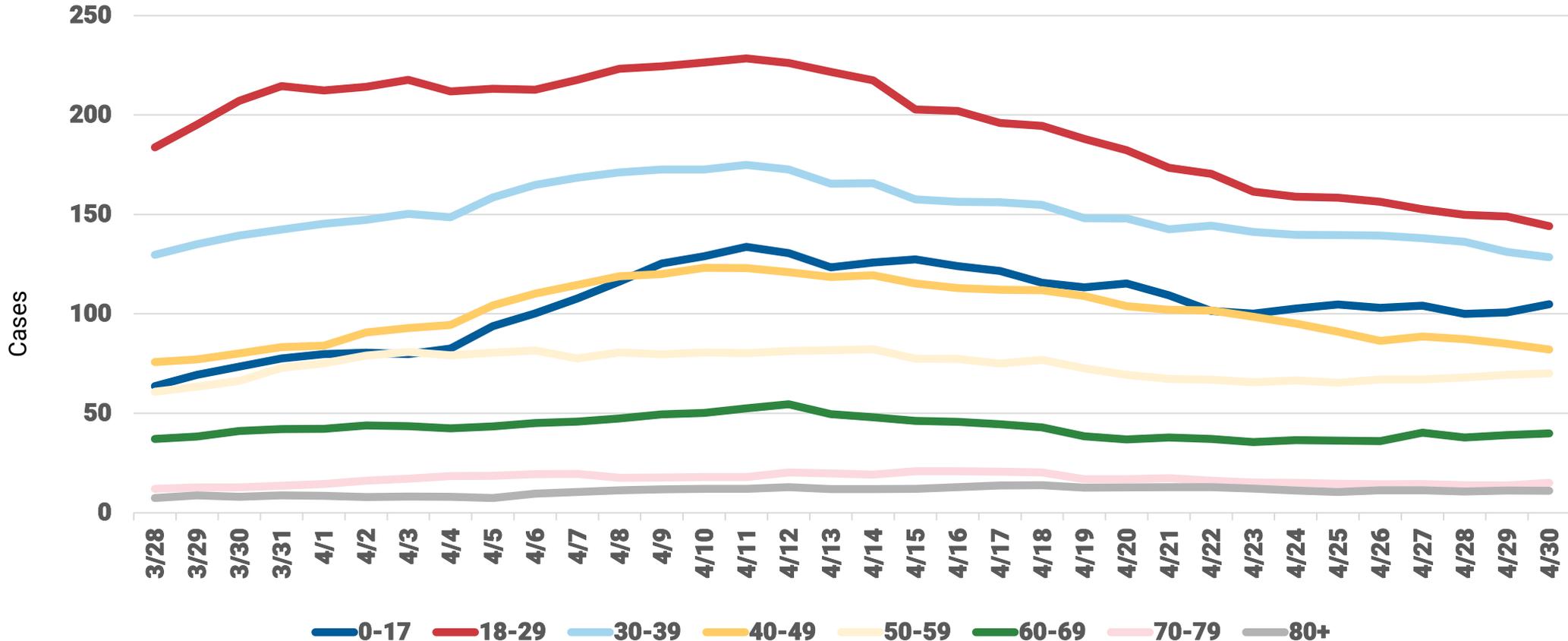


COVID-19 Outcomes by Race/Ethnicity and Geography

Incident cases are highest for 18-29 year olds. Some age groups are now flattening. 0-17 year olds have a slight rise.



COVID-19 Cases, on Specimen Date, by Age Group, rolling 7-day average

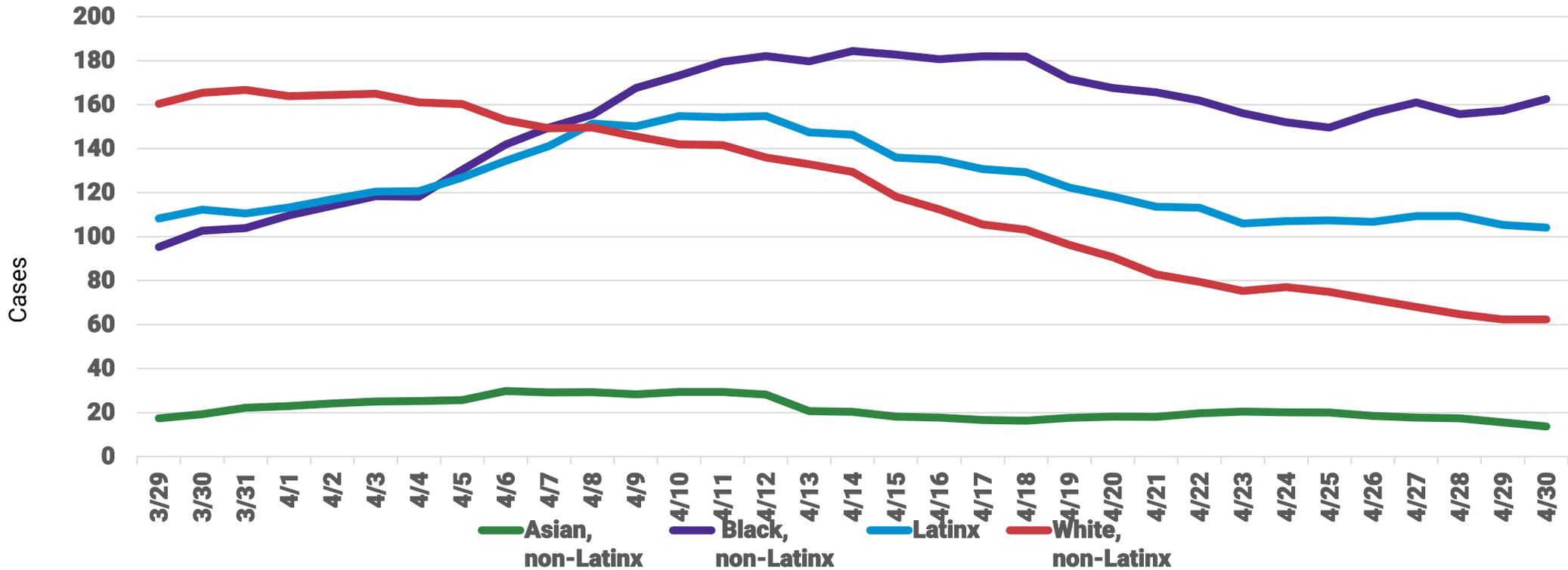


Daily COVID-19 cases with known specimen report date and race/ethnicity information. Case is defined as positive result on PCR or antigen test. This case definition was applied to the entire epidemic beginning on 2/8/2021 therefore these results are different from results reported prior. Source: INEDSS.

Incident cases are flattening for Black, non-Latinx and Latinx Chicagoans.



COVID-19 Cases, on Specimen Date, by Race/Ethnicity, rolling 7-day average



Daily COVID-19 cases with known specimen report date and race/ethnicity information. Case is defined as positive result on PCR or antigen test. This case definition was applied to the entire epidemic beginning on 2/8/2021 therefore these results are different from results reported prior. Source: INEDSS.

Weekly changes in COVID-19 cases by race/ethnicity and age group for week ending May 1st (comparisons to week ending April 24th)



Age Group (years)	Latinx	% of Age grp	Change from last week	Black, NL	% of Age grp	Change from last week	White, NL	% of Age grp	Change from last week	Asian, NL	% of Age grp	Change from last week	Total (percent)	Change from last week
0-17	143	31%	-29	203	44%	53	80	17%	-1	9	2%	-7	645 (18%)	15
18-44	419	28%	-14	665	44%	65	268	18%	-85	68	5%	-37	1,850 (52%)	-158
45-64	183	27%	11	318	47%	11	123	18%	-7	25	4%	-2	814 (23%)	0
65+	40	22%	8	89	48%	-19	40	22%	-6	5	3%	-4	227 (6%)	-11
Total	785	28%	-24	1275	45%	110	511	18%	-99	107	4%	-50	3,536	-154

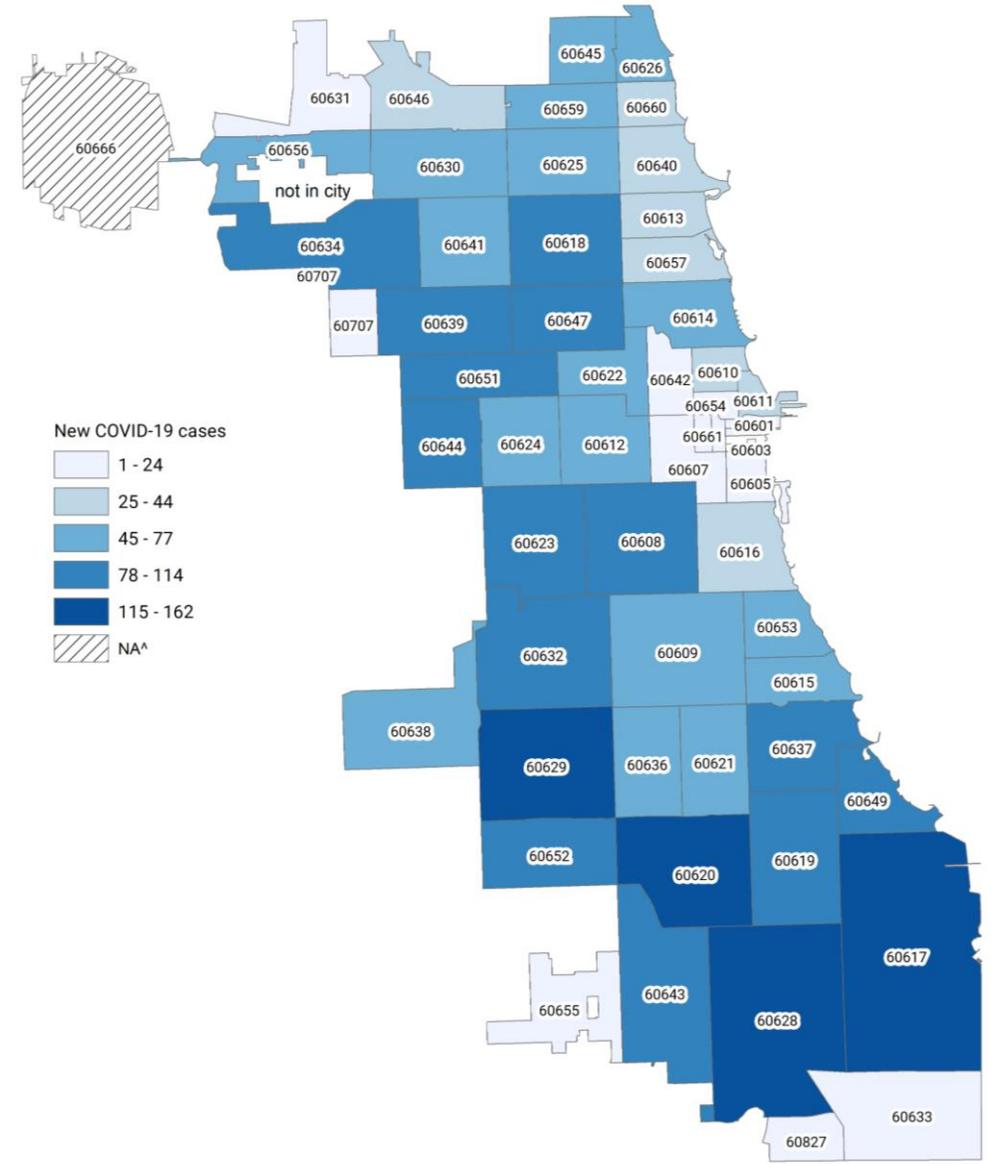
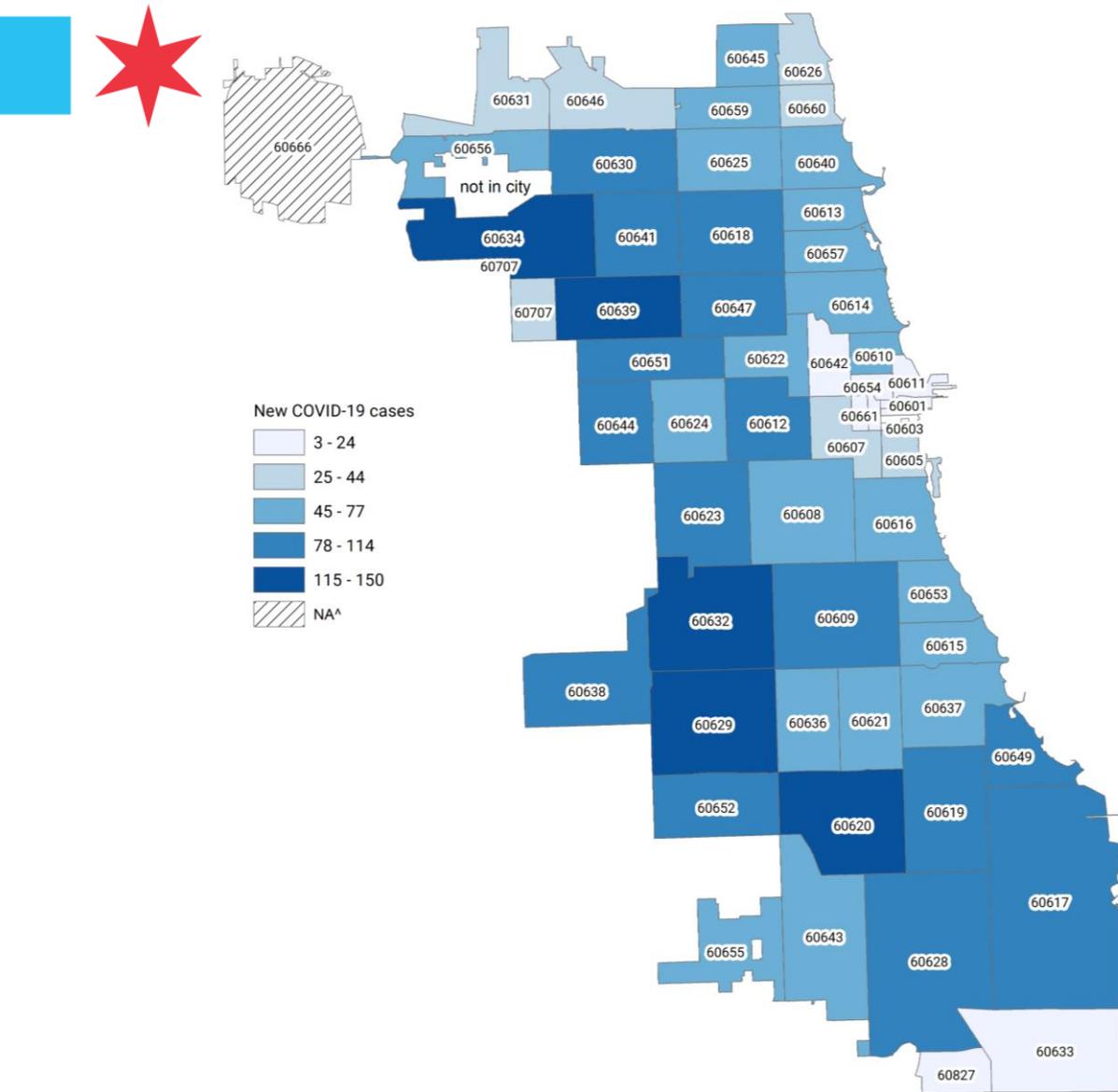
Percentages are computed using confirmed COVID-19 cases with known race/ethnicity.

Data pulled Wednesday 5/5/21

Changes in weekly case counts by zip code

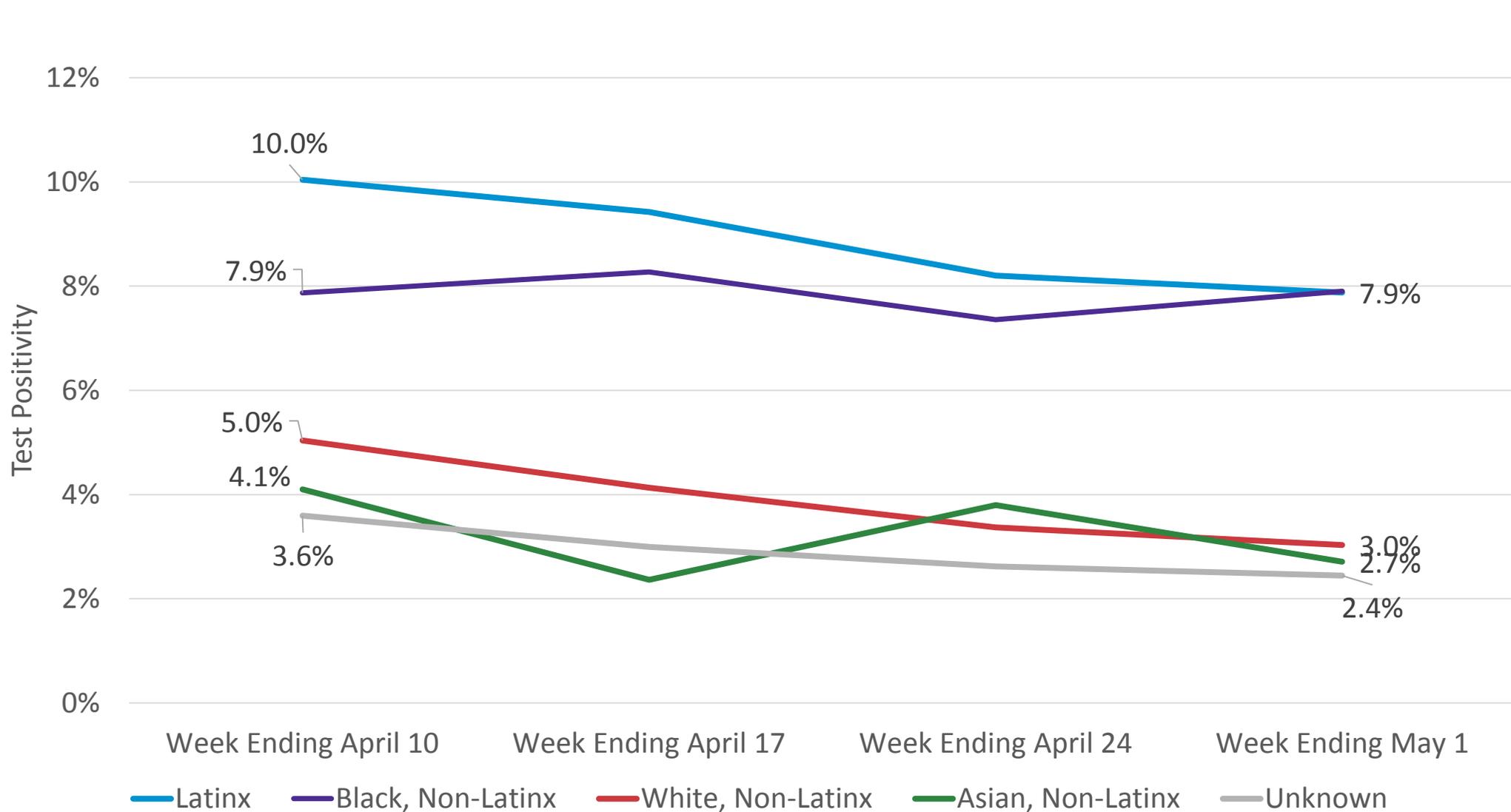
Week ending 4/24/21 (n=3,690)

Week ending 5/1/21 (n=3,536)

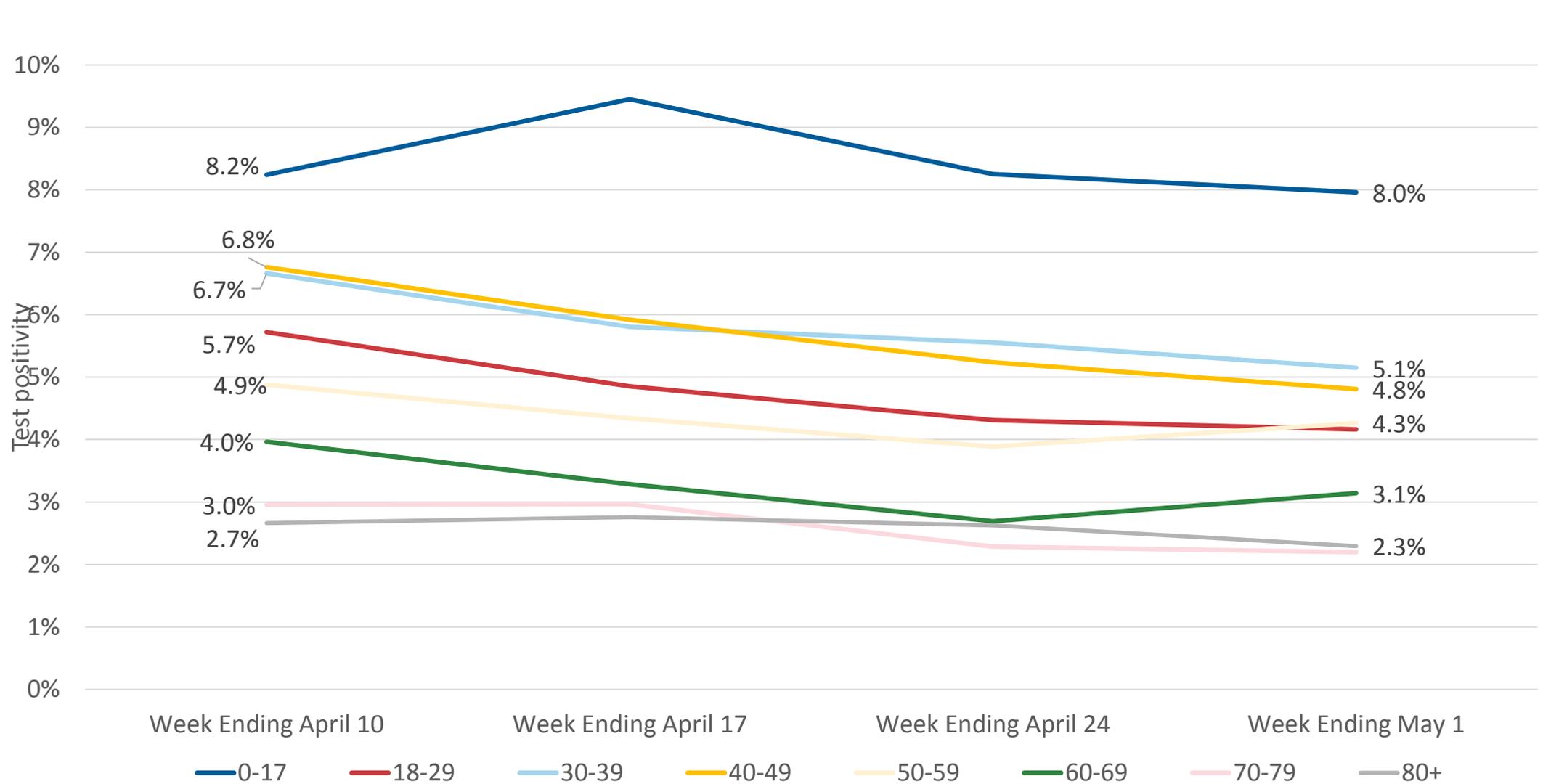


Note: Week is data through the Wednesday after the end date for the week. Week 17 ending May 1st and week 16 ending April 24th

Test positivity by Race-Ethnicity (April 4 – May 1, 2021)



Test positivity by Age through (April 4 – May 1, 2021)



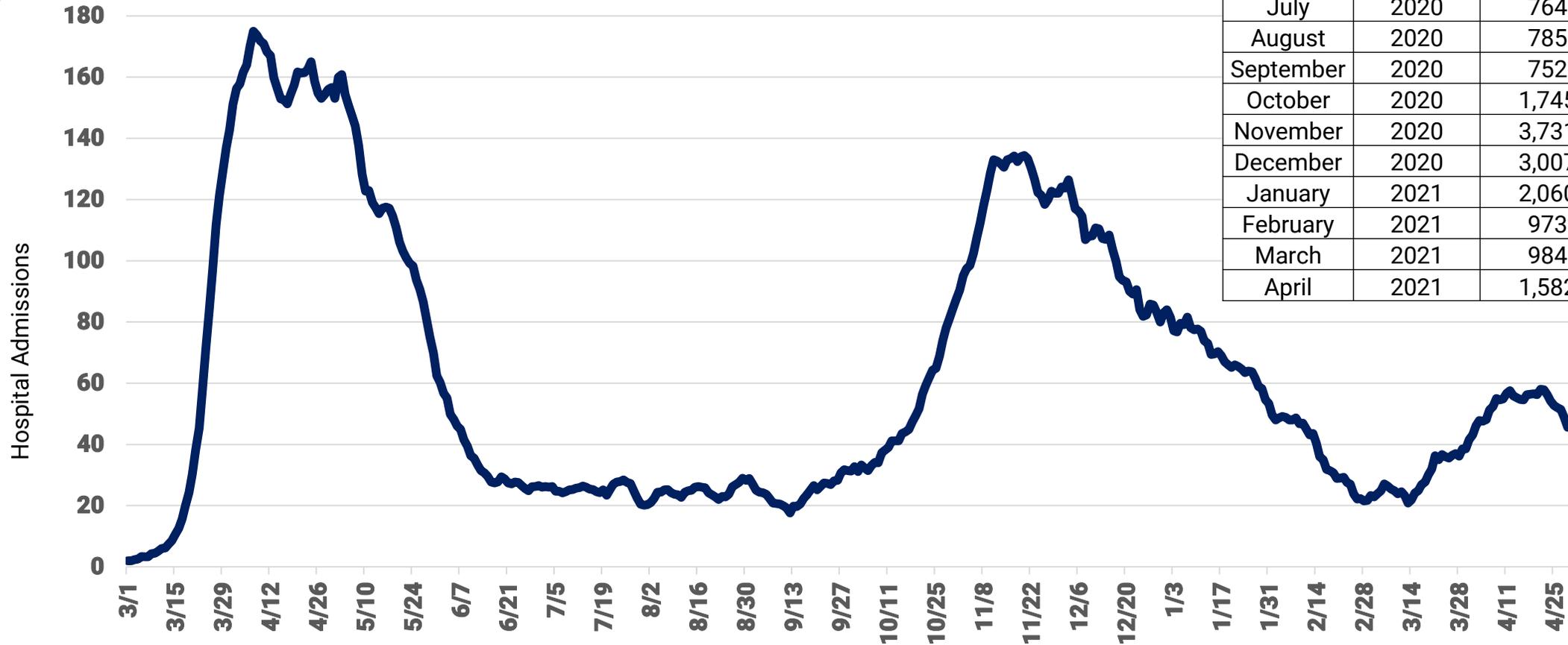


Hospital admissions

Cumulative epidemic hospitalization with table.



COVID-19 Hospital admissions, rolling 7-day average



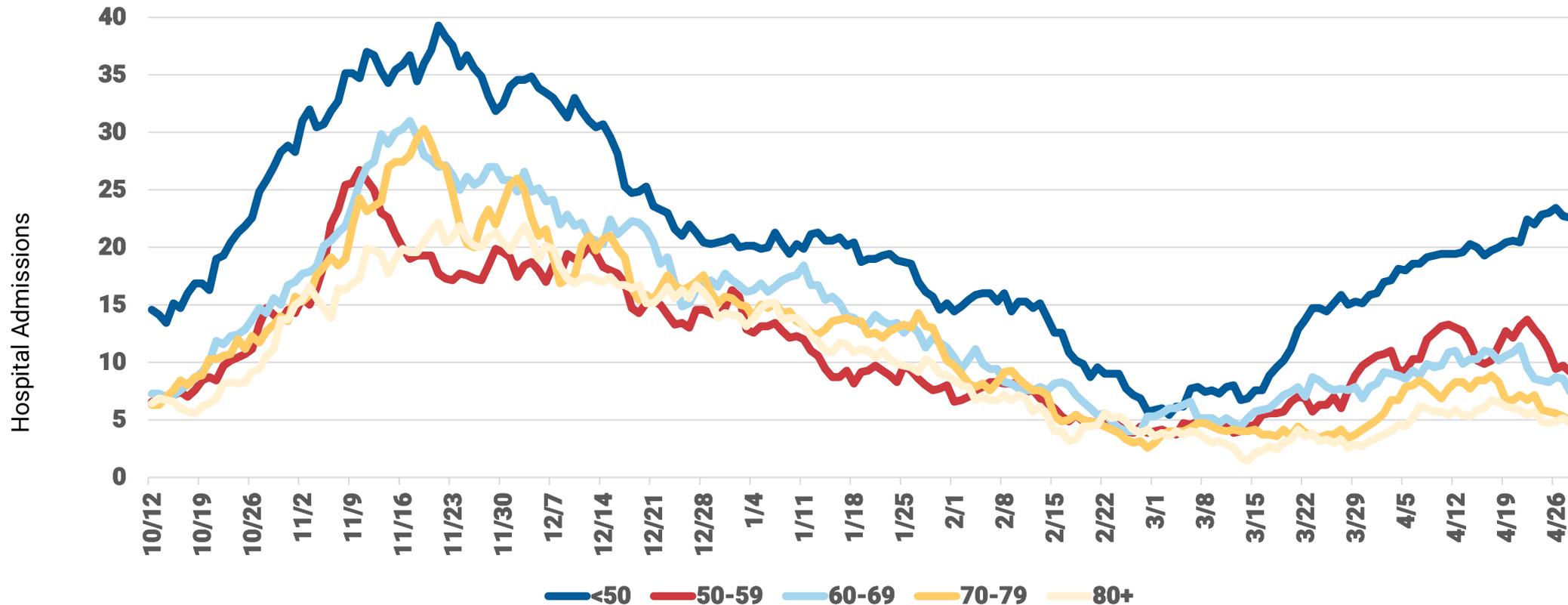
Month	Year	Hospital Admits frequency	Cumulative frequency
March	2020	1,652	1,652
April	2020	4,859	6,511
May	2020	3,250	9,761
June	2020	966	10,727
July	2020	764	11,491
August	2020	785	12,276
September	2020	752	13,028
October	2020	1,745	14,773
November	2020	3,731	18,504
December	2020	3,007	21,511
January	2021	2,060	23,571
February	2021	973	24,544
March	2021	984	25,528
April	2021	1,582	27,110

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.

Hospital admissions are declining in all older age groups while <50 year olds keeps rising.



COVID-19 hospital admits, on Specimen Date, by Age Group with finer distinctions amongst oldest strata, rolling 7-day average

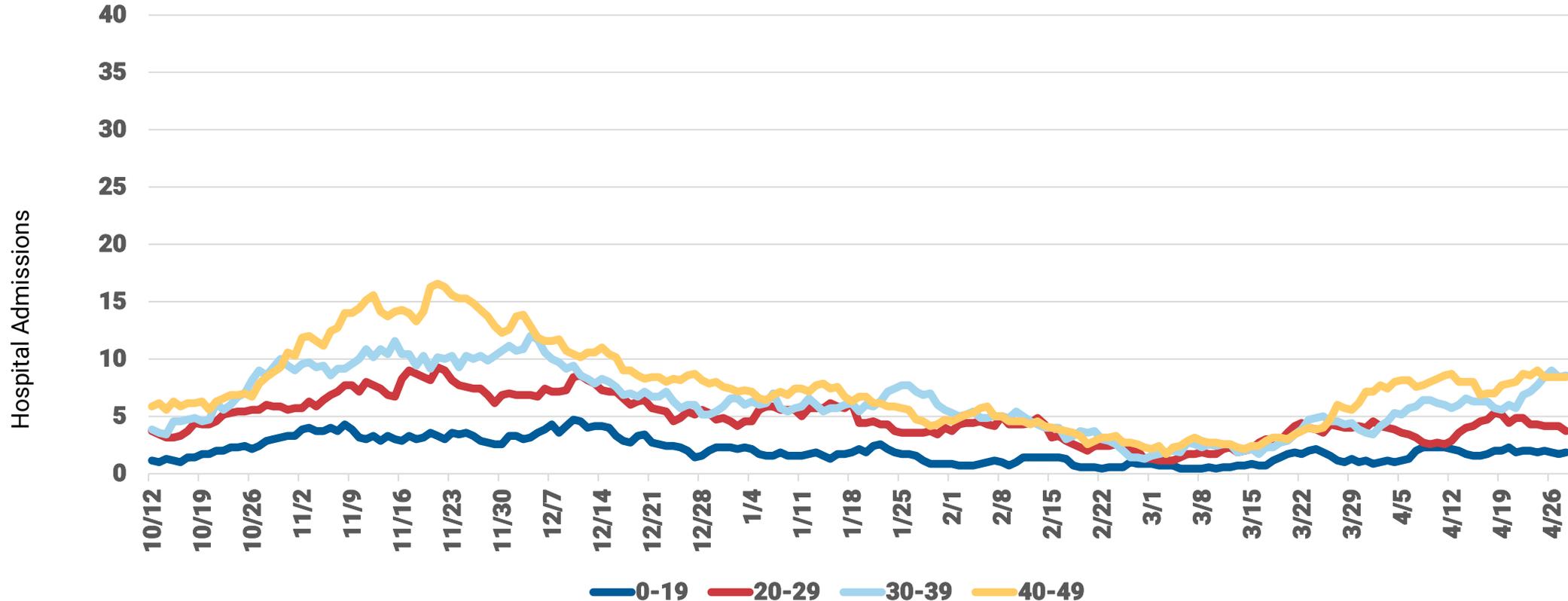


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Hospital admissions are highest and rising in 30-39 year olds and 40-49 year olds.



COVID-19 Cases, on Specimen Date, by Younger Age Group, rolling 7-day average

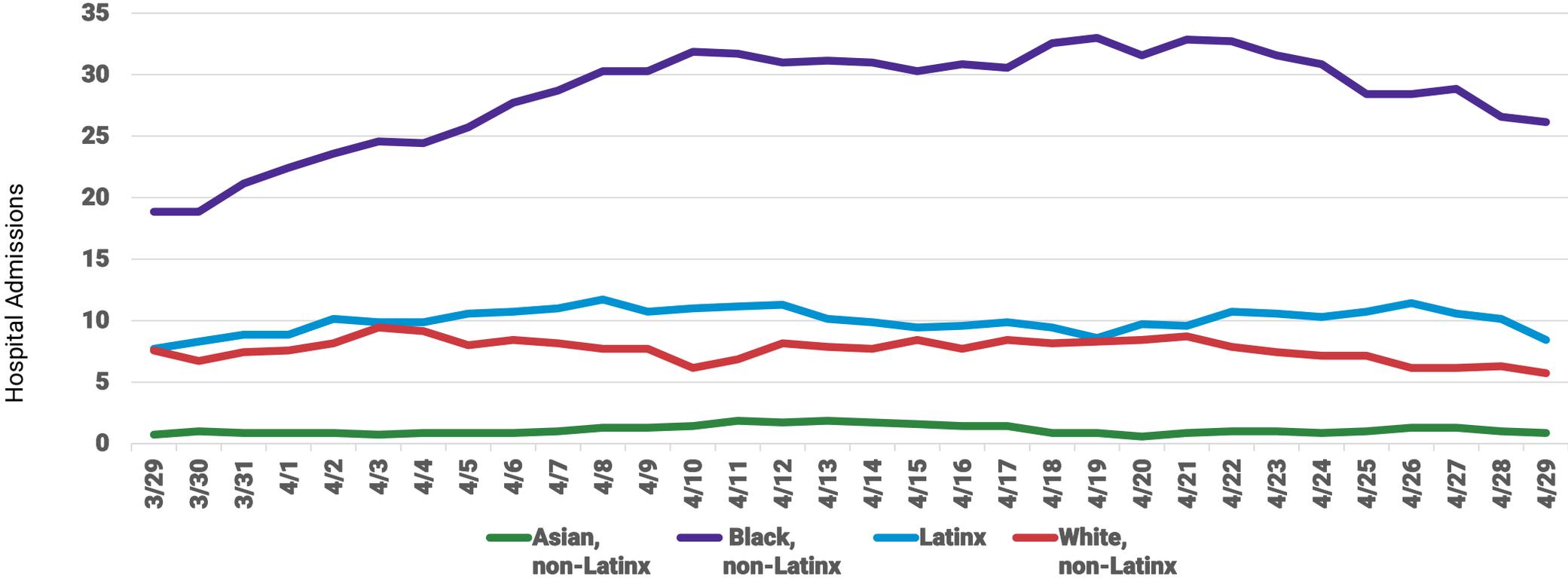


Hospitalizations are reported to CDPH by hospitals into I-NEDSS and ESSENCE and self-reported by patients via an online survey. Daily counts for most recent dates displayed are likely incomplete. Cases who are not indicated to have been hospitalized across any of the three data sources are assumed to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



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.

Recent COVID-19 hospitalizations by race/ethnicity and age group (Apr 4– May 1, 2021)

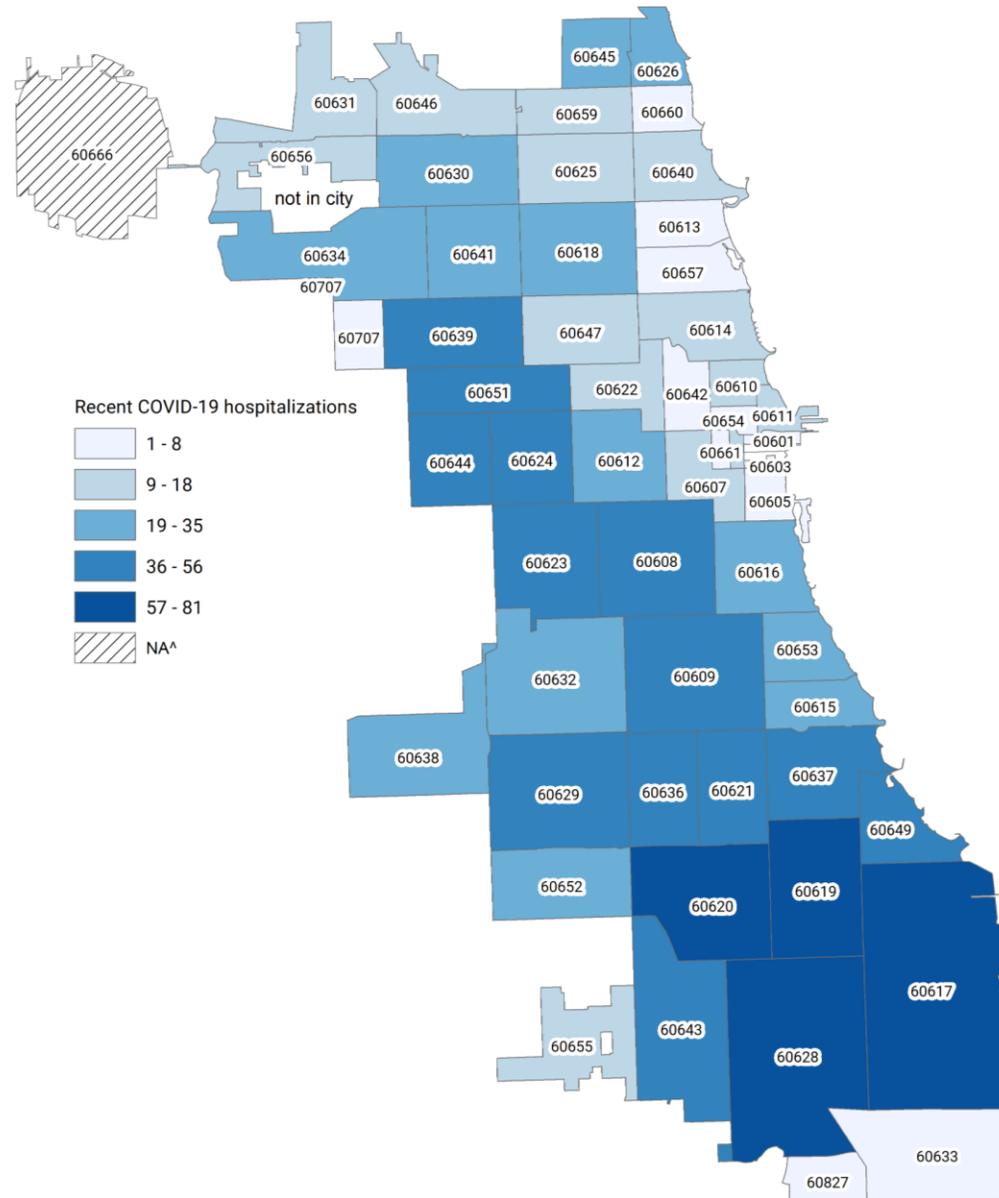


Age Group (years)	Latinx	% of Age grp	Black, NL	% of Age grp	White, NL	% of Age grp	Asian, NL	% of Age grp	Total	Percent
0-17	8	21%	21	55%	6	16%	3	8%	41	3%
18-44	82	21%	241	61%	49	12%	6	2%	417	28%
45-64	108	20%	327	61%	66	12%	12	2%	567	38%
65+	58	13%	255	59%	84	19%	11	3%	454	31%
Total	256	18%	844	60%	205	15%	32	2%	1,479	100%

Percentages are computed using COVID-19 hospitalizations with known race/ethnicity.

Data pulled Wednesday 5/5/21

Recent COVID-19 hospitalizations by Chicago zip code (Apr 4–May 1, 2021) n=1,479



Please note that COVID-19 hospitalizations have significant reporting delays

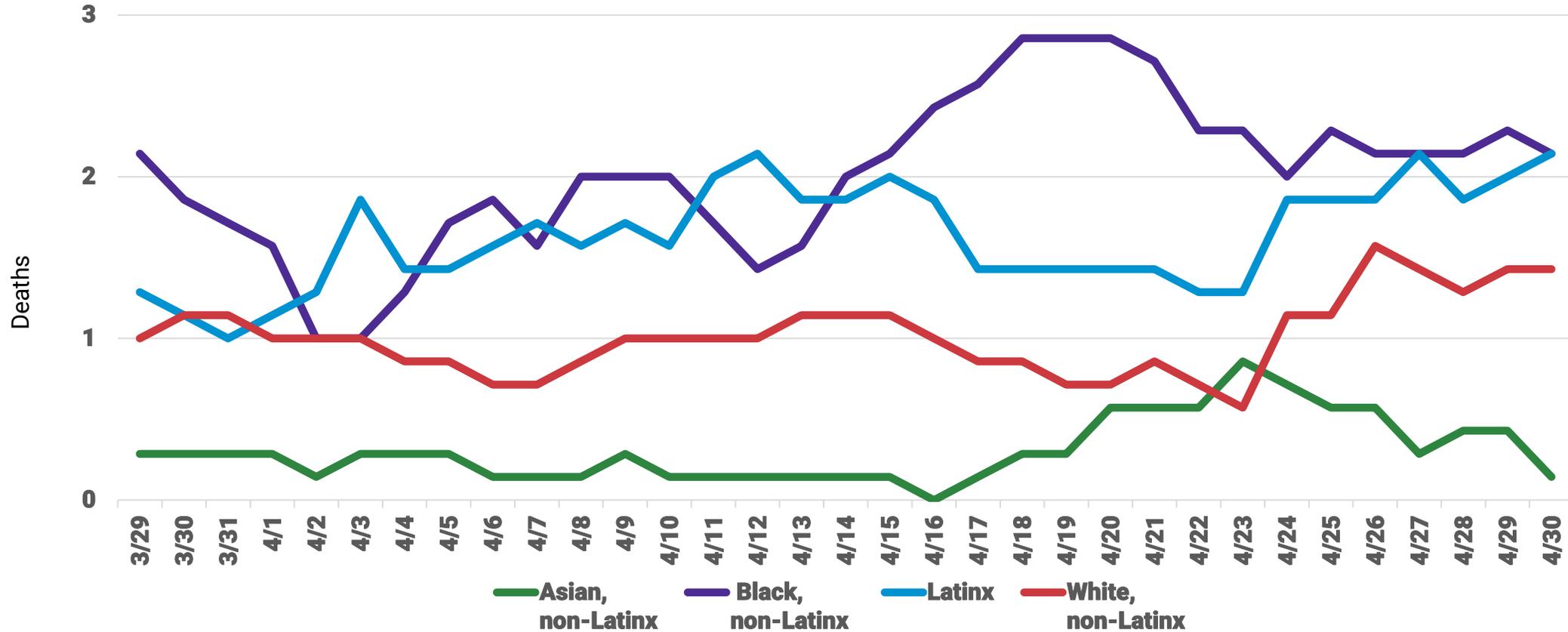


Deaths

Daily COVID-19 deaths have no clear pattern by race/ethnicity.



COVID-19 Deaths, by Race/Ethnicity, rolling 7-day average



Daily COVID-19 deaths reported for Chicago residents with known death date. Data source: INEDSS. A five day lag is imposed to reduce inaccuracy created by reporting delays.

2021 COVID-19 deaths by race/ethnicity and age group through May 5th

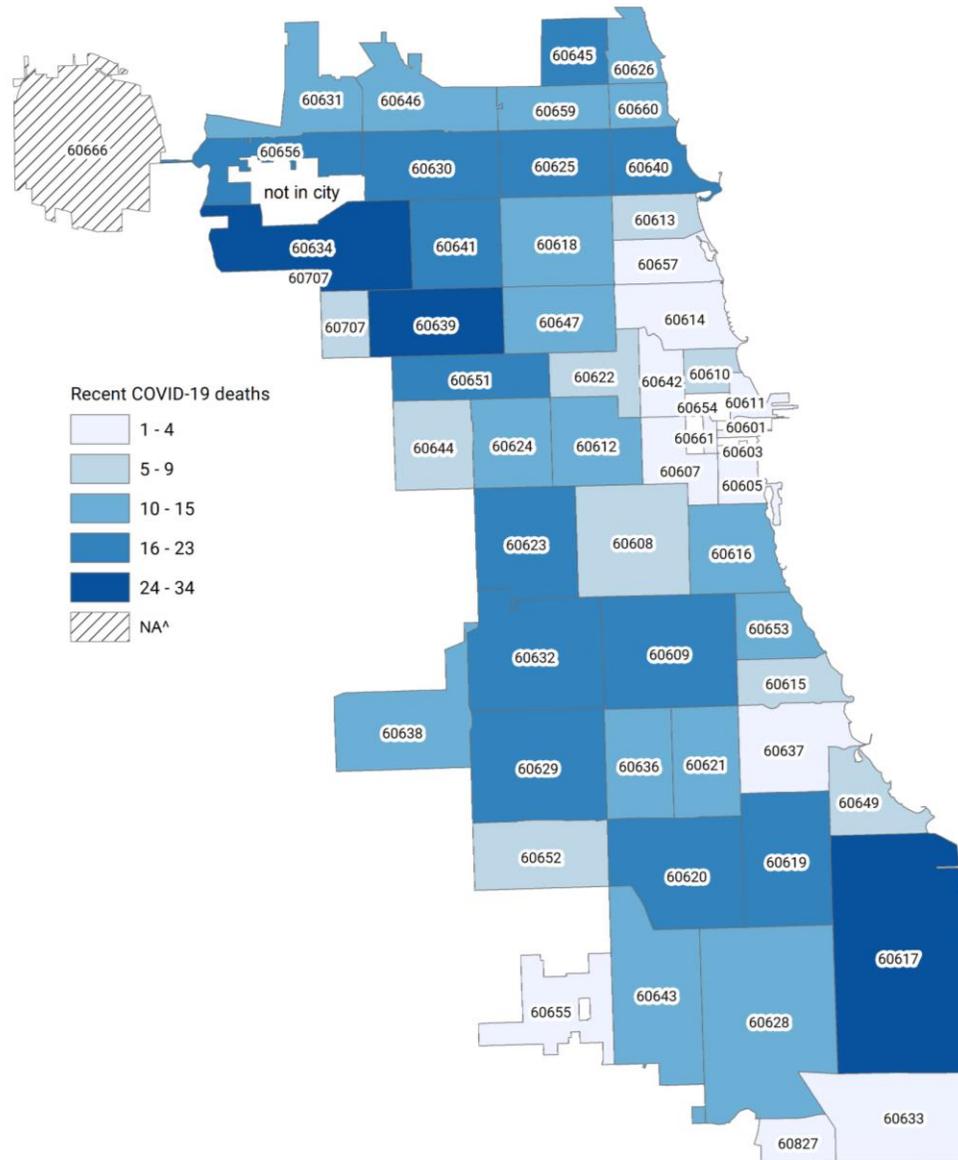


Age Group (years)	Latinx	% of Age grp	Black, NL	% of Age grp	White, NL	% of Age grp	Asian, NL	% of Age grp	Total	Percent
0-17	0	0%	0	0%	0	0%	0	0%	0	0%
18-44	8	24%	19	58%	3	9%	2	6%	33	5%
45-64	65	41%	65	41%	21	13%	6	4%	158	25%
65+	107	25%	151	35%	136	32%	30	7%	433	69%
Total	180	29%	235	38%	160	26%	38	6%	624	100%

Percentages are computed using COVID-19 hospitalizations with known race/ethnicity.

Data pulled Wednesday 5/5/21

COVID-19 deaths in 2021 through May 5th by Chicago zip code (n=624)



Please note that COVID-19 hospitalizations have significant reporting delays



Reopening Metrics



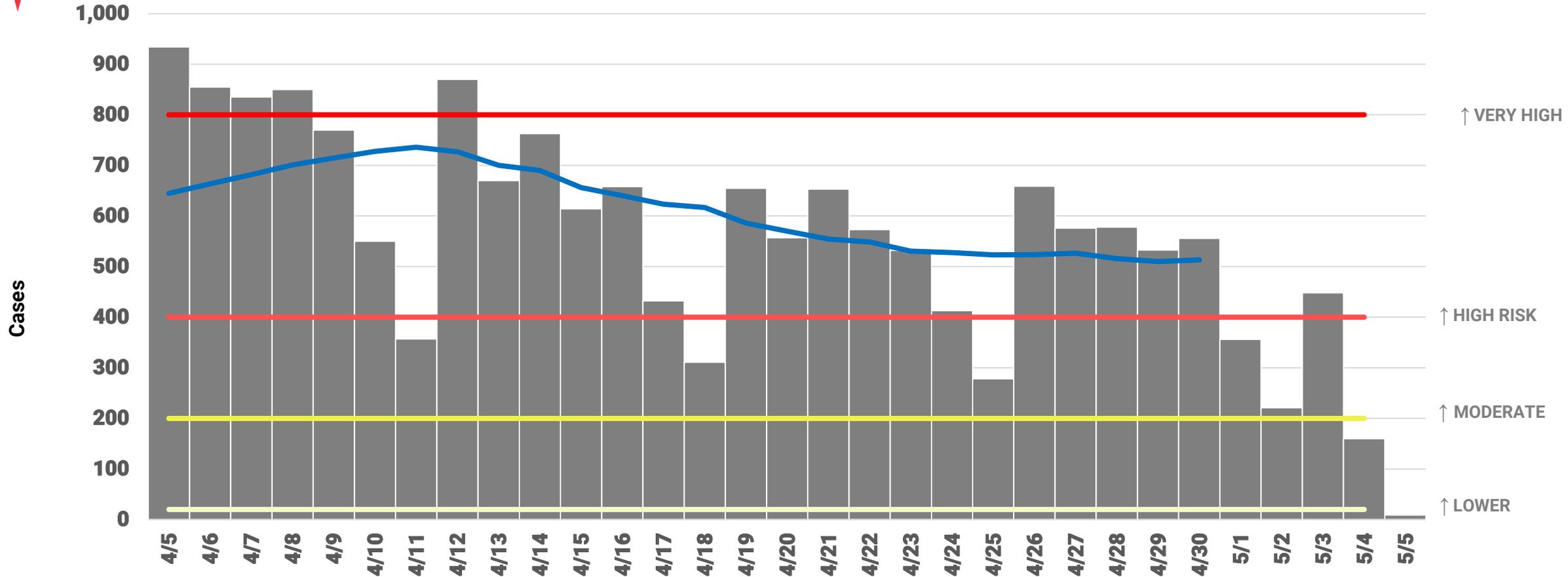
COVID-19 Cases

COVID-19 case incidence risk level is high.

Date	Incident case count, 7DRA	Consecutive days with 10%+ change	Consecutive days with 15%+ change	Risk level	# of days 10%+ in last week
4/30/2021	513	0	0	HIGH	0



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

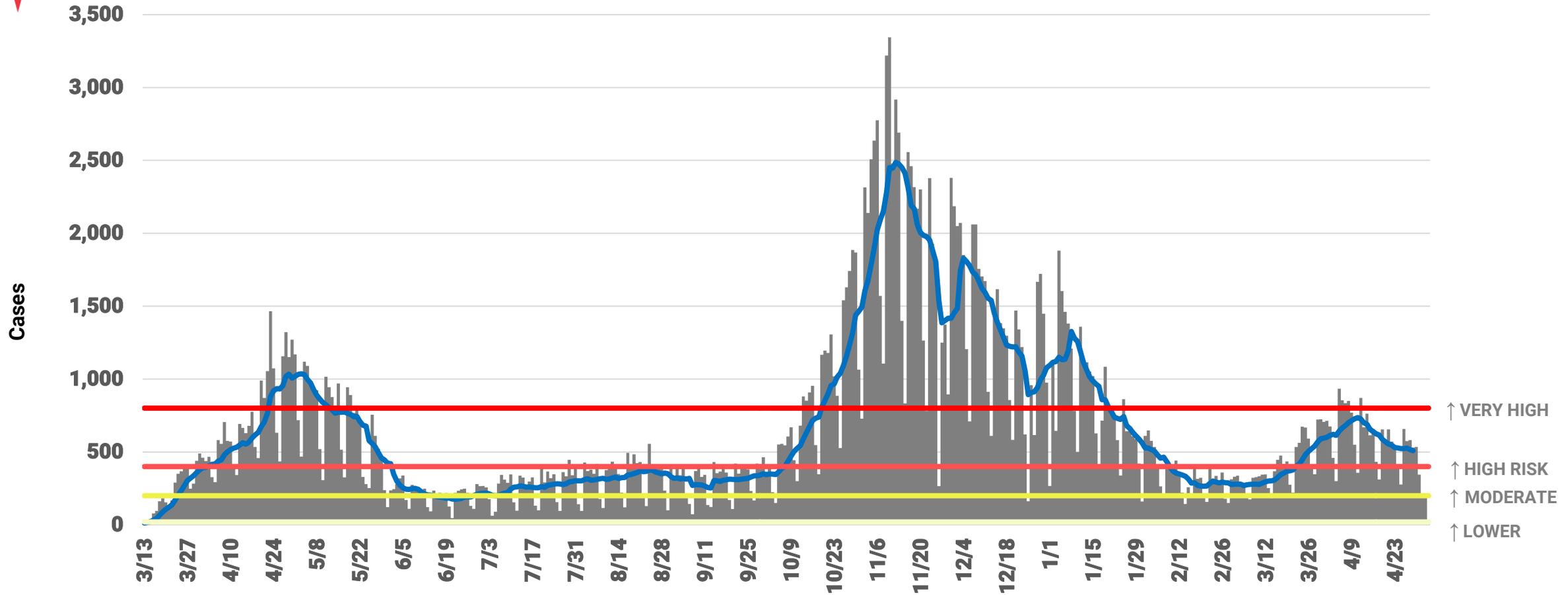


Daily COVID-19 cases with known specimen report date. Case is defined as positive result on PCR or antigen test. This case definition was applied to the entire epidemic beginning on 2/8/2021 therefore these results are different from results reported prior. Source: INEDSS.

COVID-19 case incidence risk level varies over time.



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



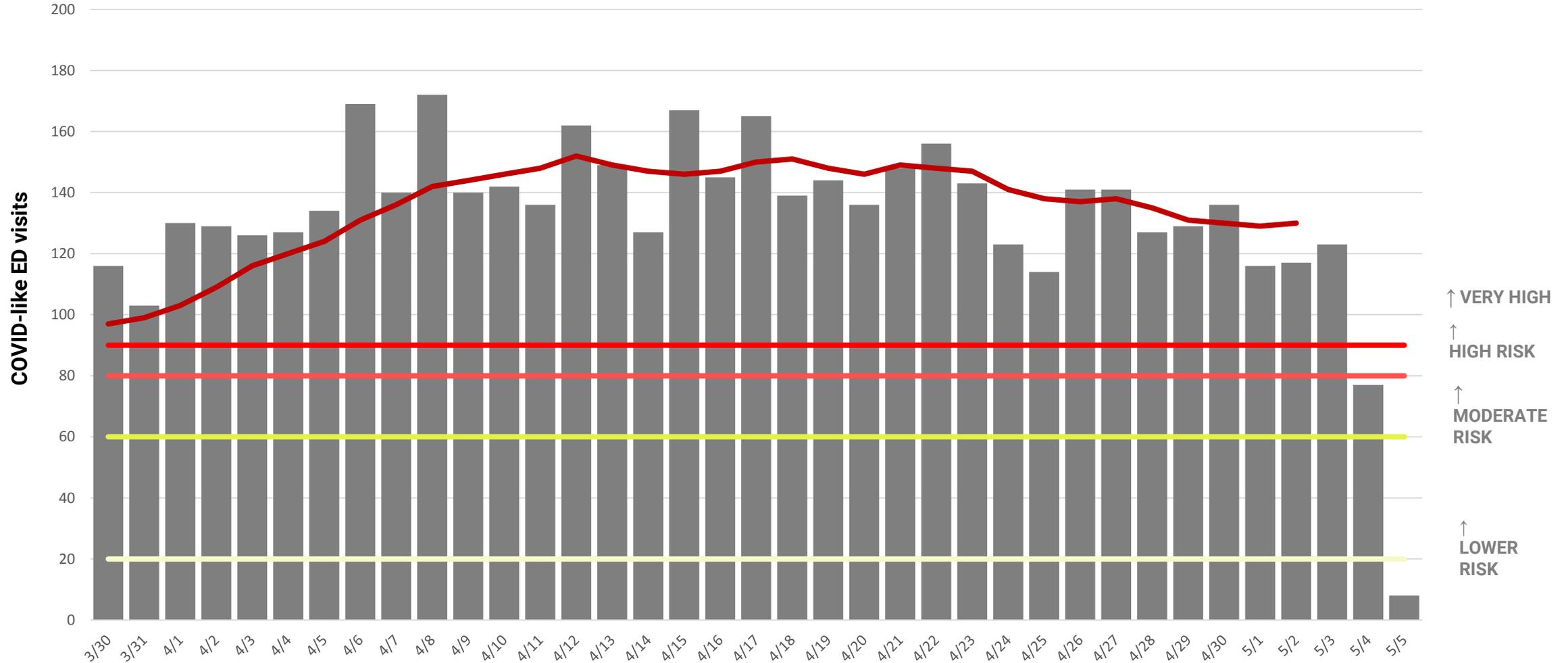
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Emergency Department Visits

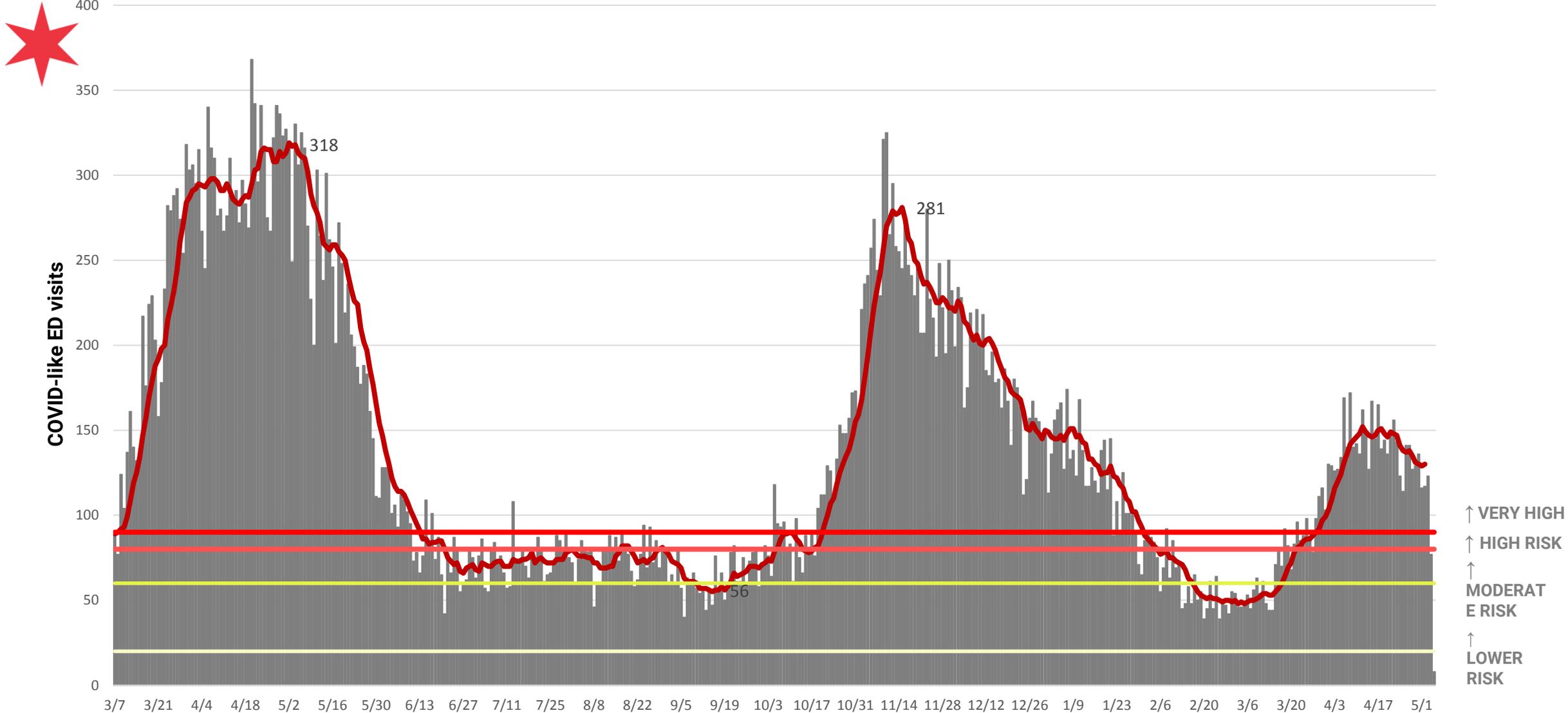
ED visits for COVID-like illness risk level is very high.

Date	CLI ED visit count, 7DRA	Consecutive days with 10%+ change	Consecutive days with 15%+ change	Risk level	# of days 10%+ in last week
5/22021	125	0	0	VERY HIGH	0



Count of all emergency department visits, and inpatient 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 reached the highest peak in early May 2020 and is currently decreasing.



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



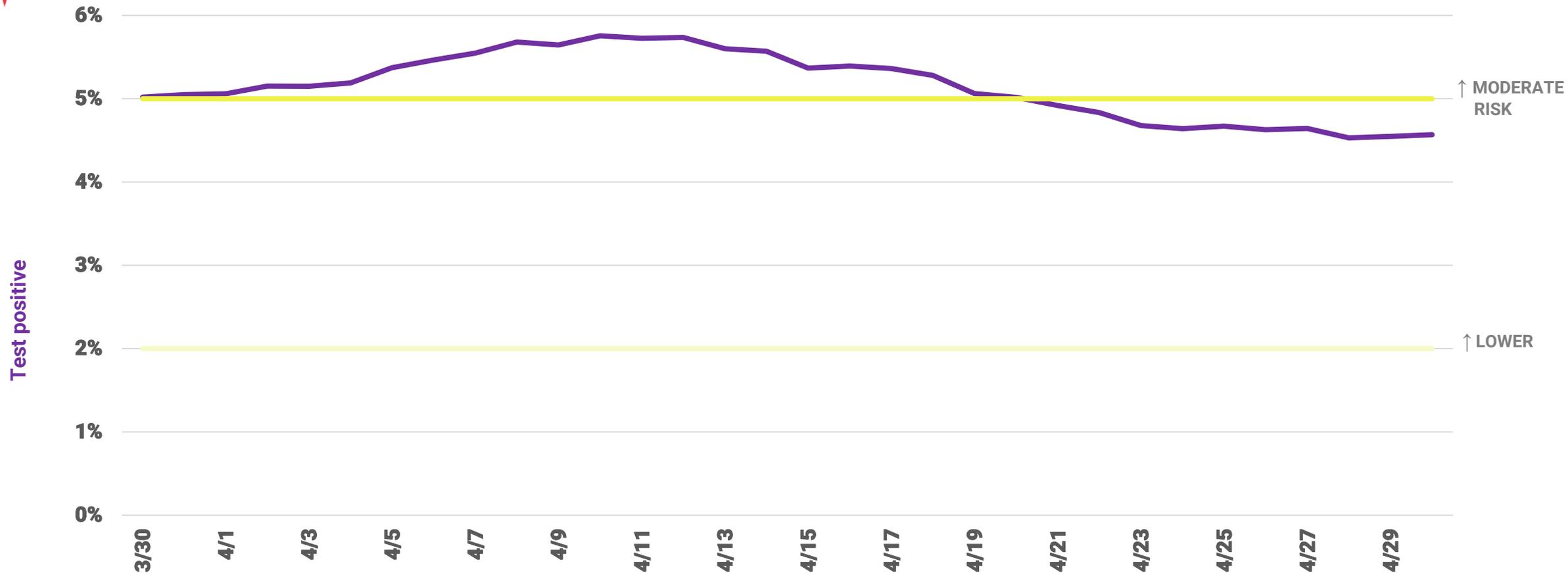
Test Positivity

Test positivity risk level is lower.



Date	Test Positivity, 7DRA	Consecutive days with 10%+ change	Consecutive days with 15%+ change	Risk level	# of days 10%+ in last week
4/30/2021	4.6%	0	0	LOWER	0

COVID-19 tests, 7-day rolling average for test positive (%)

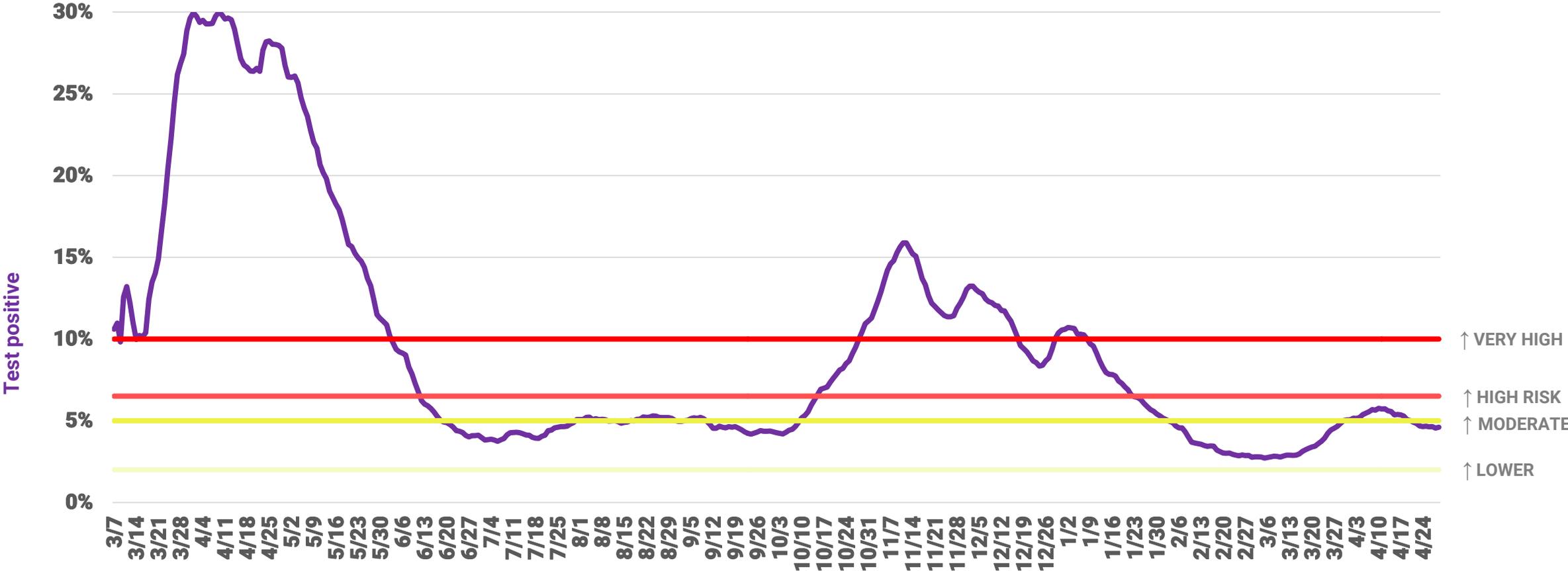


Test positivity is the number of positive tests divided by all tests performed. For the purposes of public reporting, the definition of 'tests' was expanded on 2/8/2021 to include antigen tests in addition to PCR tests. (Previous reports only described PCR tests). The new definition is applied to testing performed at any point during the epidemic. Source: INEDSS.

Test positivity varies over time.



COVID-19 tests, 7-day rolling average for test positive (%)

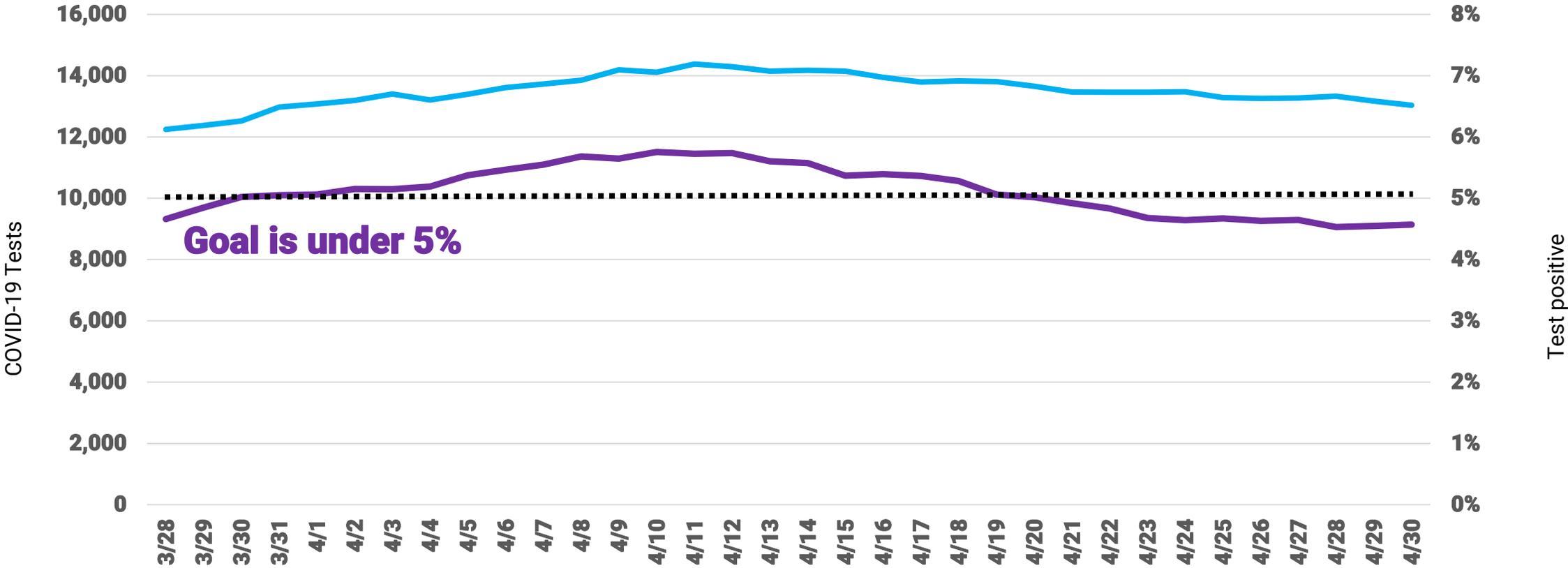


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Test positivity is flat while testing counts dip slightly.



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

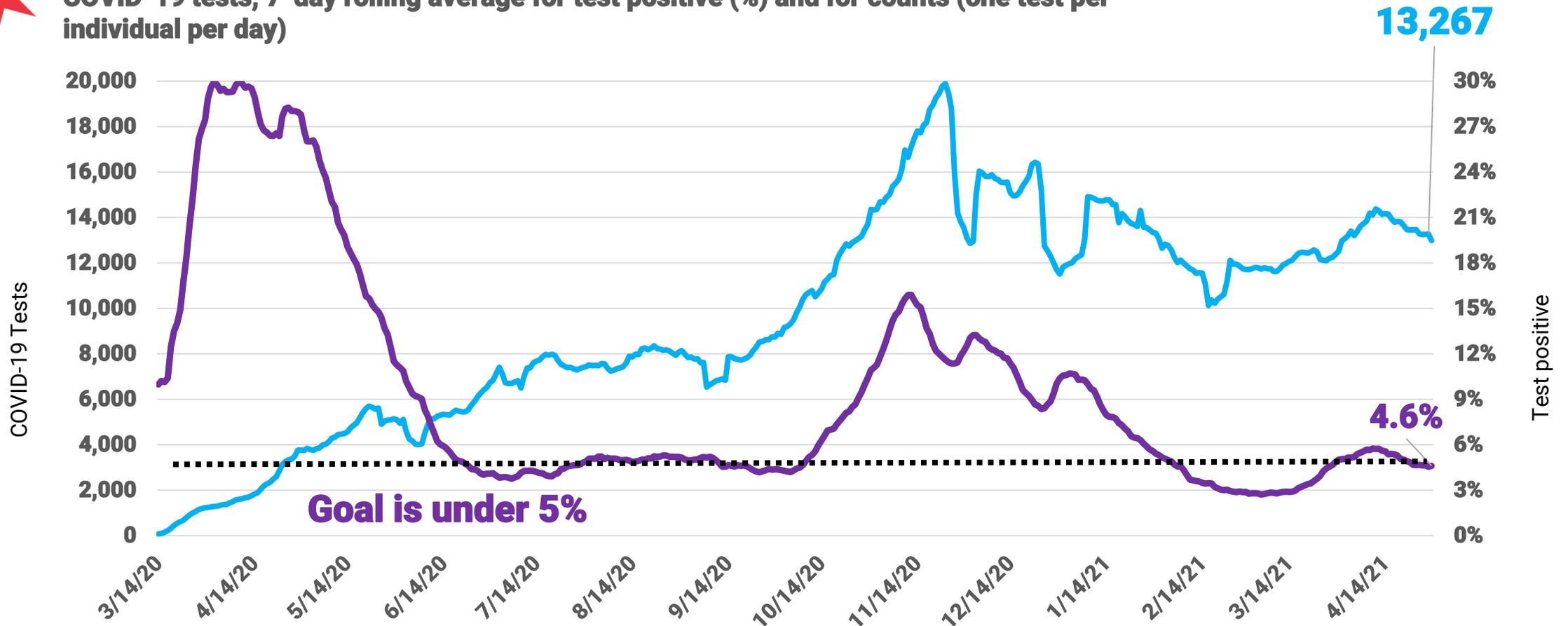


Test positivity is the number of positive tests divided by all tests performed (Source: INEDSS).

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).



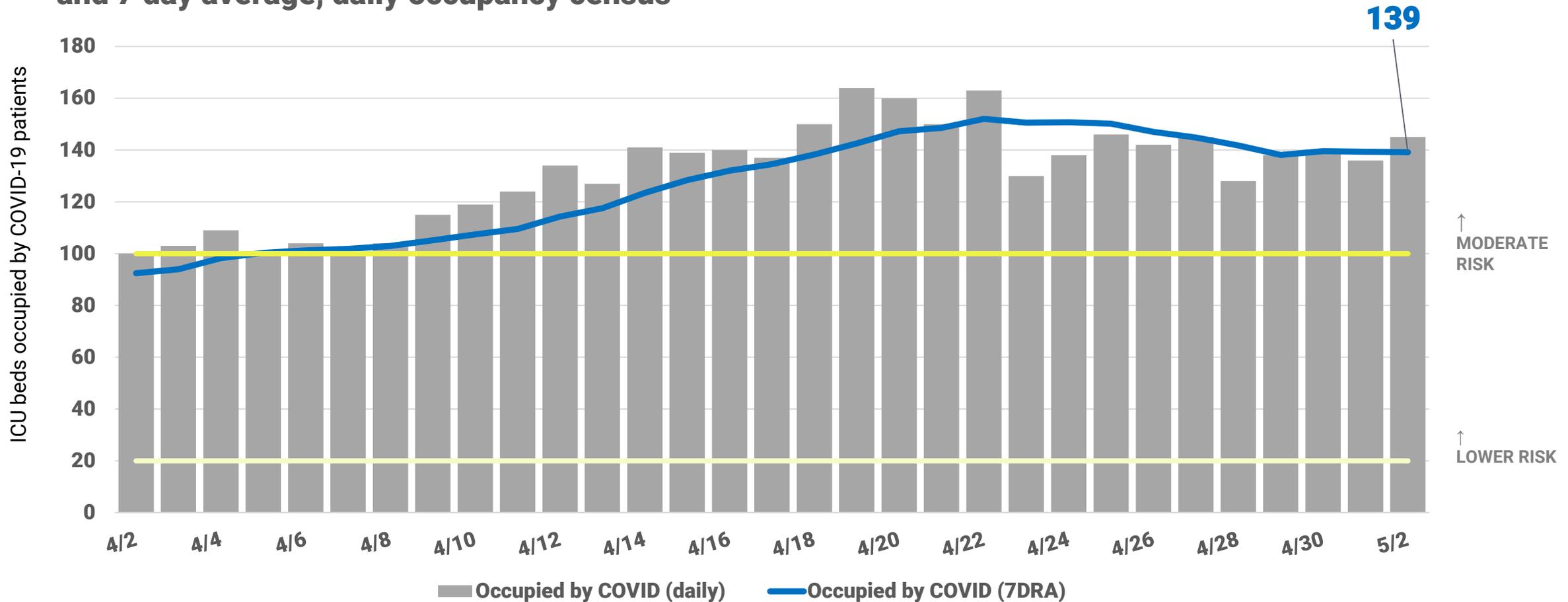
Hospital System Capacity

COVID-19 occupied ICU beds risk level is moderate.

Date	ICU Beds Occupied by COVID-19, 7DRA	ICU Bed Availability, 7DRA	Risk level
5/2/2021	139	21%	MODERATE



ICU beds occupied by COVID-19 patients, daily counts and 7 day average, daily occupancy census



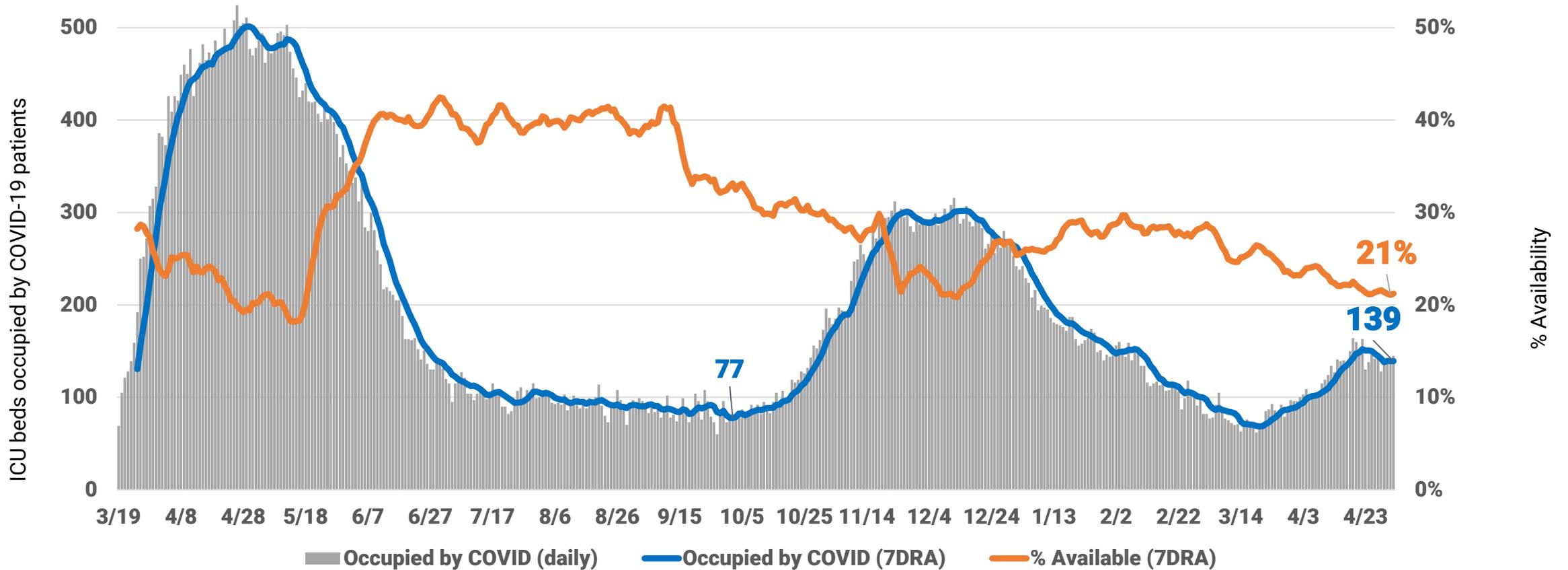
Includes all Chicago hospitals. Hospitals report daily to CDPH via EMResource, beginning March 19. ICU bed count includes all adult and pediatric ICU beds in Chicago hospitals. Includes Chicago and non-Chicago residents. Includes confirmed and suspected COVID-19 cases.

ICU availability and occupancy from COVID-19 varies.

Date	ICU Beds Occupied by COVID-19, 7DRA	ICU Bed Availability, 7DRA	Risk level
5/2/2021	139	21%	MODERATE



ICU beds available and occupied by COVID-19 patients, daily counts and 7 day average, daily occupancy census

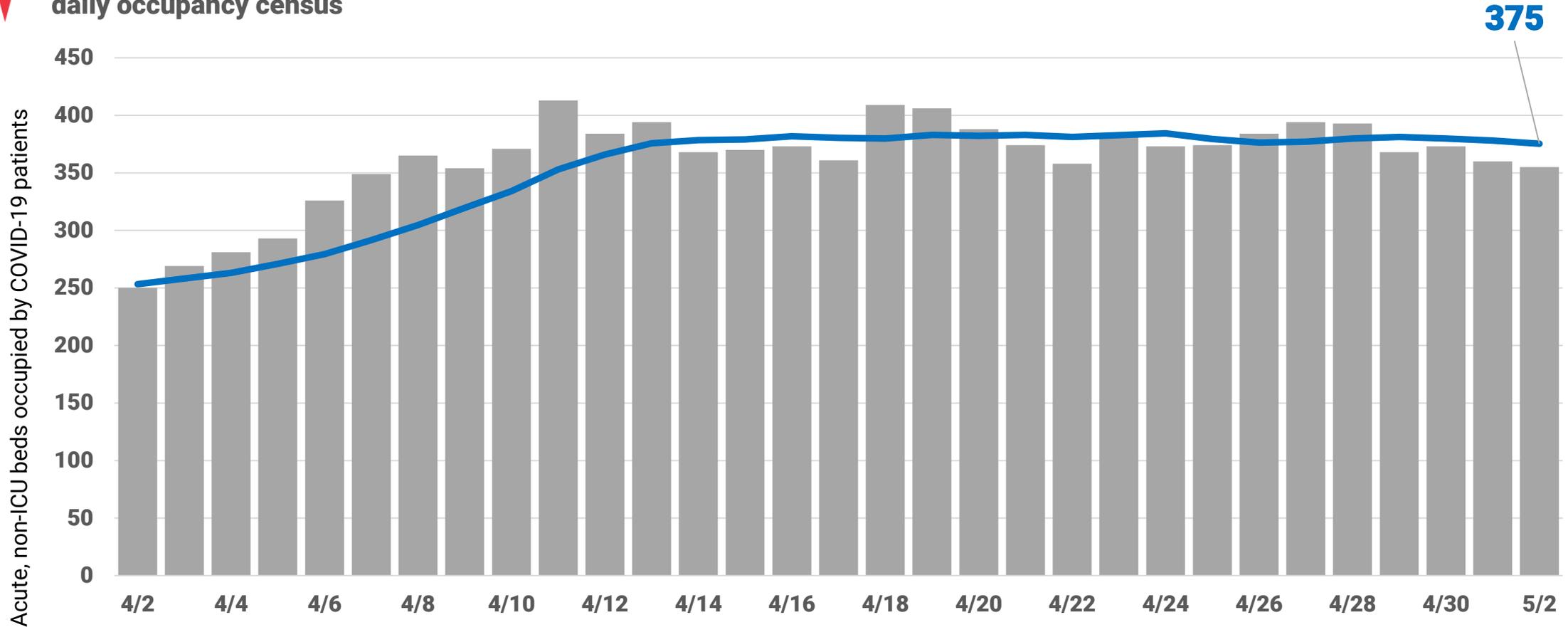


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Acute, non-ICU bed census of COVID patients is flat.



COVID-19 acute/non-ICU beds occupied, daily counts and 7 day average, daily occupancy census

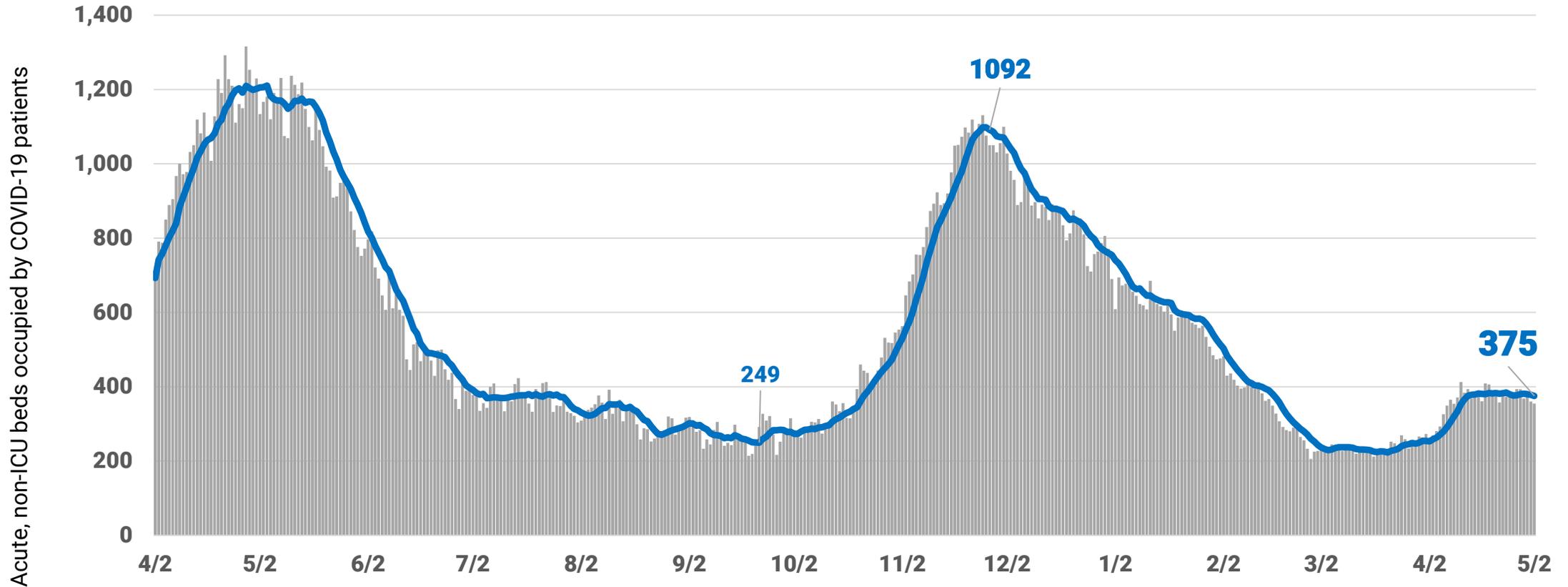


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Acute, non-ICU bed census of COVID patients varies over time.



COVID-19 acute/non-ICU beds occupied, daily counts and 7 day average, daily occupancy census



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.